

## Master Chemical and Substance Inventory List:

<b>Date</b>	<b>Brand Name</b>	<b>Manufacturer</b>	<b>Chemical Name</b>
22MAY2023	GE Silicone	General Electric (GE)	GE Silicone (Clear)
06SEP2016	Windex	SC Johnson	Windex Glass and more multisurface
12APR2022	Alex Acrylic	DAP Global	Alex Acrylic (All Colors)
11APR2022	Alex Acrylic	DAP Global	Alex Plus (Clear)
24DEC2021	Acetone	Thermo Fisher	Acetone
16JUL2021	Denatured Alcohol	Crown	Denatured Alcohol
01JUN2024	Contact Adhesive	3M	Contact Adhesive
19JUL2023	Kampel Seamfill	Kampel	Seamfill
16JUN2022	Solid-surface Joint Adhesive (Parts A – B)	Dupont	Joint Adhesive

# Safety Data Sheet



Revision Number: 001.0

Issue date: 05/22/2023

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** GE Advanced Silicone Window and Door Projects  
**Product type/use:** Joint sealant, silicone  
**Restriction of Use:** None identified  
**Company address:** Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067

**IDH number:** 2811092  
**Item number:**  
**Region:** United States  
**Contact information:**  
Telephone: +1 (860) 571-5100  
MEDICAL EMERGENCY Phone: Poison Control Center  
1-877-671-4608 (toll free) or 1-303-592-1711  
TRANSPORT EMERGENCY Phone: CHEMTREC  
1-800-424-9300 (toll free) or 1-703-527-3887  
Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**WARNING:** MAY CAUSE AN ALLERGIC SKIN REACTION.  
SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
SKIN SENSITIZATION	1
REPRODUCTIVE TOXICITY	2

### PICTOGRAM(S)



### Precautionary Statements

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust or fumes. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection.

**Response:** IF ON SKIN: Wash with plenty of water. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.

**Storage:** Store locked up.

**Disposal:** Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Silica, amorphous, fumed, crystal-free	112945-52-5	>= 5 - <= 10
1,1,1,3,3,3-Hexamethyldisilazane	999-97-3	>= 1 - <= 5
Trimethoxy(methyl)silane	1185-55-3	>= 1 - <= 5
octamethylcyclotetrasiloxane	556-67-2	>= 0.1 - <= 1

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

Exposure to moisture during cure will release 0.1 - 0.9% methanol.

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Move to fresh air. If symptoms persist, seek medical advice.
<b>Skin contact:</b>	Wipe off with paper towel or cloth. Rinse with running water and soap. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention immediately.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention immediately.
<b>Ingestion:</b>	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
<b>Symptoms:</b>	See Section 11.

#### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.
<b>Special firefighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Unusual fire or explosion hazards:</b>	Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. In case of fire, keep containers cool with water spray.
<b>Hazardous combustion products:</b>	Oxides of carbon. Oxides of silicon. Formaldehyde. Toxic and irritating vapors.

#### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

<b>Environmental precautions:</b>	Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Ensure adequate ventilation. Wear appropriate personal protective equipment. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Use only with adequate ventilation. Vapours should be extracted to avoid inhalation. Avoid contact with eyes, skin and clothing. Do not wear contact lenses. Do not handle contact lenses until all sealant has been removed from hands. Residual sealant may transfer to lenses and cause eye irritation. Wash thoroughly after handling. See Section 8 of the SDS for Personal Protective Equipment. Keep container closed.
<b>Storage:</b>	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Silica, amorphous, fumed, crystal-free	10 mg/m <sup>3</sup> TWA Inhalable dust. 3 mg/m <sup>3</sup> TWA Respirable fraction. 3 mg/m <sup>3</sup> TWA Respirable particles. 10 mg/m <sup>3</sup> TWA Inhalable particles.	20 MPPCF TWA 0.8 mg/m <sup>3</sup> TWA 50 MPPCF TWA Total dust. 5 mg/m <sup>3</sup> TWA Respirable fraction. 15 mg/m <sup>3</sup> TWA Total dust. 15 MPPCF TWA Respirable fraction.	None	None
1,1,1,3,3,3-Hexamethyldisilazane	None	None	10 ppm TWA 50 ppm STEL	None
Trimethoxy(methyl)silane	None	None	None	None
octamethylcyclotetrasiloxane	None	None	10 ppm TWA	None

**Engineering controls:**

Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

**Respiratory protection:**

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

**Eye/face protection:**

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.

**Skin protection:**

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Solid
<b>Color:</b>	Clear
<b>Odor:</b>	Alcoholic
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	Not applicable
<b>Vapor pressure:</b>	Not available.
<b>Boiling point/range:</b>	> 100 °C (> 212°F)
<b>Melting point/ range:</b>	Not available.
<b>Specific gravity:</b>	1.01
<b>Vapor density:</b>	Not available.
<b>Flash point:</b>	Not available.
<b>Flammable/Explosive limits - lower:</b>	Not available.
<b>Flammable/Explosive limits - upper:</b>	Not available.
<b>Autoignition temperature:</b>	Not available.
<b>Flammability:</b>	Not classified as a flammability hazard
<b>Evaporation rate:</b>	Not available.
<b>Solubility in water:</b>	Not available.
<b>Partition coefficient (n-octanol/water):</b>	Not available.
<b>VOC content:</b>	3 %; 31 g/l (by weight, calculated using CARB method; g/L less water, less exempts calculated using SCAQMD method)
<b>Viscosity:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of storage and use.
<b>Hazardous reactions:</b>	None under normal processing.
<b>Hazardous decomposition products:</b>	Oxides of carbon. Oxides of silicon. Formaldehyde. Ammonia. Methanol.
<b>Incompatible materials:</b>	Acids and bases. Oxidizing agents. Amines.
<b>Reactivity:</b>	Not available.
<b>Conditions to avoid:</b>	Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight. Exposure to moisture.

## 11. TOXICOLOGICAL INFORMATION

**Relevant routes of exposure:** Skin, Inhalation, Eyes, Ingestion

**Potential Health Effects/Symptoms**

<b>Inhalation:</b>	When heated to temperatures exceeding 300° F (150° C) in the presence of air, silicones may form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate the eyes, nose and throat. Safe handling conditions may be maintained by keeping formaldehyde vapor concentrations below the OSHA permissible limit.
<b>Skin contact:</b>	Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction.
<b>Eye contact:</b>	May cause eye irritation.
<b>Ingestion:</b>	Not expected under normal conditions of use. May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Silica, amorphous, fumed, crystal-free	None	Nuisance dust
1,1,1,3,3,3-Hexamethyldisilazane	Oral LD50 (Rat) = 847 mg/kg Oral LD50 (Rabbit) = 1,100 mg/kg Oral LD50 (Mouse) = 850 mg/kg Inhalation LC50 (Rat, 4 h) = 8,700 mg/m3 Inhalation LC50 (Rat, 4 h) = 10.3 mg/l	Irritant
Trimethoxy(methyl)silane	Inhalation LC50 (Rat, 4 h) = > 26000 ppm	Irritant, Allergen
octamethylcyclotetrasiloxane	Oral LD50 (Rat) = > 4,800 mg/kg Dermal LD50 (Rat) = > 2,000 mg/kg Dermal LD50 (Rabbit) = > 4,640 mg/kg Inhalation LC50 (Rat, 4 h) = 36 mg/l	Irritant

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Silica, amorphous, fumed, crystal-free	No	No	No
1,1,1,3,3,3-Hexamethyldisilazane	No	No	No
Trimethoxy(methyl)silane	No	No	No
octamethylcyclotetrasiloxane	No	No	No

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

### U.S. Department of Transportation Ground (49 CFR)

<b>Proper shipping name:</b>	Not regulated
<b>Hazard class or division:</b>	None
<b>Identification number:</b>	None
<b>Packing group:</b>	None

### International Air Transportation (ICAO/IATA)

<b>Proper shipping name:</b>	Not regulated
<b>Hazard class or division:</b>	None
<b>Identification number:</b>	None
<b>Packing group:</b>	None

### Water Transportation (IMO/IMDG)

<b>Proper shipping name:</b>	Not regulated
<b>Hazard class or division:</b>	None
<b>Identification number:</b>	None
<b>Packing group:</b>	None

## 15. REGULATORY INFORMATION

### United States Regulatory Information

<b>TSCA 8 (b) Inventory Status:</b>	All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.
<b>TSCA 12 (b) Export Notification:</b>	None above reporting de minimis
<b>CERCLA/SARA Section 302 EHS:</b>	None above reporting de minimis.
<b>CERCLA/SARA Section 311/312:</b>	Immediate Health, Delayed Health
<b>CERCLA/SARA Section 313:</b>	None above reporting de minimis.
<b>California Proposition 65:</b>	This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

### Canada Regulatory Information

<b>CEPA DSL/NDSL Status:</b>	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
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## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: First issue.

**Prepared by:** Product Safety and Regulatory Affairs

**Issue date:** 05/22/2023

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**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



**WINDEX® ORIGINAL GLASS CLEANER**

Version 0.0

Print Date 09/06/2016

Revision Date 00/00/0000

SDS Number 350000014153

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product information**

- Product name** : **WINDEX® ORIGINAL GLASS CLEANER**
- Recommended use** : Hard Surface Cleaner
- Manufacturer, importer, supplier** : S.C. Johnson & Son, Inc.  
1525 Howe Street  
Racine WI 53403-2236
- Telephone** : +18005585252
- Emergency telephone number** : 24 Hour Medical Emergency Phone: (866)231-5406  
24 Hour International Emergency Phone: (703)527-3887  
24 Hour Transport Emergency Phone: (800)424-9300

**2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

**Globally Harmonized System (GHS) Classification**

This product does not meet the criteria for classification in any hazard class according to regulation OSHA 29 CFR 1910.1200.

**Labelling**

**Precautionary statements**

**Other hazards** : None identified

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This product does not contain hazardous chemicals at or above a reportable level as defined by OSHA 29 CFR 1910.1200

For additional information on product ingredients, see [www.whatsinsidescjohnson.com](http://www.whatsinsidescjohnson.com).

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**4. FIRST AID MEASURES**

**Eye contact** : No special requirements



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- Skin contact** : No special requirements
- Inhalation** : No special requirements.
- Ingestion** : No special requirements

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**5. FIREFIGHTING MEASURES**

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting** : Container may melt and leak in heat of fire.
- Further information** : Fight fire with normal precautions from a reasonable distance. Standard procedure for chemical fires. Wear full protective clothing and positive pressure self-contained breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : Wash thoroughly after handling.
- Environmental precautions** : Outside of normal use, avoid release to the environment.
- Methods and materials for containment and cleaning up** : Dike large spills.  
Clean residue from spill site.

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**7. HANDLING AND STORAGE**

- Handling**
- Precautions for safe handling** : Avoid contact with skin, eyes and clothing.  
For personal protection see section 8.  
KEEP OUT OF REACH OF CHILDREN AND PETS.
- Advice on protection** : Normal measures for preventive fire protection.

## Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



## WINDEX® ORIGINAL GLASS CLEANER

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**against fire and explosion**

### Storage

**Requirements for storage areas and containers** : Keep container closed when not in use.

**Other data** : Stable under normal conditions.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits

ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

### Personal protective equipment

**Respiratory protection** : No special requirements.

**Hand protection** : No special requirements.

**Eye protection** : No special requirements.

**Skin and body protection** : No special requirements.

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** : liquid

**Color** : blue

**Odor** : floral

**Odour Threshold** : Test not applicable for this product type

**pH** : 10.7  
at (25 C)

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<b>Melting point/freezing point</b>	: 0 C
<b>Initial boiling point and boiling range</b>	: 100 C
<b>Flash point</b>	: does not flash
<b>Evaporation rate</b>	: Test not applicable for this product type
<b>Flammability (solid, gas)</b>	: Does not sustain combustion.
<b>Upper/lower flammability or explosive limits</b>	: Test not applicable for this product type
<b>Vapour pressure</b>	: Calculated 31.7 hPa
<b>Vapour density</b>	: Test not applicable for this product type
<b>Relative density</b>	: 1.00 g/cm <sup>3</sup> at 25 C
<b>Solubility(ies)</b>	: soluble
<b>Partition coefficient: n-octanol/water</b>	: Test not applicable for this product type
<b>Auto-ignition temperature</b>	: Test not applicable for this product type
<b>Decomposition temperature</b>	: Heating can release hazardous gases.
<b>Viscosity, dynamic</b>	: similar to water

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according to Hazard Communication Standard; 29 CFR 1910.1200



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<b>Viscosity, kinematic</b>	:	similar to water	:
<b>Oxidizing properties</b>	:	Test not applicable for this product type	:
<b>Volatile Organic Compounds Total VOC (wt. %)*</b>	:	0.2 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations	:
<b>Other information</b>	:	None identified	:

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## 10. STABILITY AND REACTIVITY

<b>Possibility of hazardous reactions</b>	:	If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated.
<b>Conditions to avoid</b>	:	Direct sources of heat.
<b>Incompatible materials</b>	:	Do not mix with bleach or any other household cleaners. Strong bases
<b>Hazardous decomposition products</b>	:	Thermal decomposition can lead to release of irritating gases and vapours.

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## 11. TOXICOLOGICAL INFORMATION

<b>Emergency Overview</b>	:	This product does not meet the criteria for classification in any hazard class according to regulation OSHA 29 CFR 1910.1200.
<b>Acute oral toxicity</b>	:	LD50 > 5000 mg/kg
<b>Acute inhalation toxicity</b>	:	LC50 > 10 mg/L
<b>Acute dermal toxicity</b>	:	LD50 > 5000 mg/kg

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GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	Oral
Acute toxicity	No classification proposed	Dermal
Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

**Aggravated Medical Condition** : None known.

## 12. ECOLOGICAL INFORMATION

**Product** : The product itself has not been tested.

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**Toxicity**

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

**No environmental data required.**

**Other adverse effects** : None known.

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**13. DISPOSAL CONSIDERATIONS**

Consumer may discard empty container in trash, or recycle where facilities exist.

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**14. TRANSPORT INFORMATION**

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

**Land transport**

Not classified as dangerous in the meaning of transport regulations.

**Sea transport**

Not classified as dangerous in the meaning of transport regulations.

**Air transport**

Not classified as dangerous in the meaning of transport regulations.

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**15. REGULATORY INFORMATION**

**Notification status** : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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**Notification status** : All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

**California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. OTHER INFORMATION**

**HMIS Ratings**

<b>Health</b>	1
<b>Flammability</b>	0
<b>Reactivity</b>	0

**NFPA Ratings**

<b>Health</b>	1
<b>Fire</b>	0
<b>Reactivity</b>	0
<b>Special</b>	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

**Further information**

**Safety Data Sheet**

according to Hazard Communication Standard; 29 CFR 1910.1200



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This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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## Safety Data Sheet

**24 Hour Emergency Phone Numbers**  
**Medical/Poison Control:**  
**In U.S.: Call 1-800-222-1222**

**Outside U.S.: Call your local poison control center**

**Transportation/National Response Center:**

**1-800-535-5053**  
**1-352-323-3500**

NOTE: The National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this SDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this SDS are further described in Section 16.

### 1. Identification

This Safety Data Sheet is available in American Spanish upon request.  
 Los Datos de Seguridad pueden obtenerse en Espanol si lo requiere.

<b>Product Name:</b>	Alex Plus Acrylic Latex Caulk Plus Silicone - All Colors	<b>Revision Date:</b>	4/11/2022
<b>Product UPC Number:</b>	070798742437, 070798742338, 070798742772, 070798742253	<b>Supercedes Date:</b>	New SDS
<b>Product Use/Class:</b>	Caulking Compound	<b>SDS No:</b>	1700665
<b>Manufacturer:</b>	DAP Global Inc. 2400 Boston Street Suite 200 Baltimore, MD 21224-4723 888-327-8477 (non - emergency matters)  SDS Coordinator: MSDS@dap.com  Emergency Telephone: 1-800-535-5053, 1-352-323-3500, 1-800-222-1222	<b>Imported by:</b>	DAP Canada 475 Finchdene Square Unit 5 Scarborough, Ontario M1X 1B7 888-327-8477 (non - emergency matters)  SDS Coordinator: MSDS@dap.com  Emergency Telephone: 1-800-535-5053, 1-352-323-3500

**Preparer:** Regulatory and Environmental Affairs

### 2. Hazards Identification

**GHS Classification**

Not a hazardous substance or mixture.

**Symbol(s) of Product**

None

**Signal Word**

Not a hazardous substance or mixture.

**Possible Hazards**

63% of the mixture consists of ingredients of unknown acute toxicity

**3. Composition/Information on Ingredients**

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt. %</u>	<u>GHS Symbols</u>	<u>GHS Statements</u>
Limestone	1317-65-3	30-60	No Information	No Information
Lubricating petroleum oil	72623-86-0	5-10	GHS07	H332
Glycol ethers	Proprietary	0.1-1.0	No Information	No Information

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

**4. First-aid Measures**

**FIRST AID - INHALATION:** Material is not likely to present an inhalation hazard at ambient conditions. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

**FIRST AID - SKIN CONTACT:** In case of contact, wash skin immediately with soap and water.

**FIRST AID - EYE CONTACT:** In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

**FIRST AID - INGESTION:** If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

**5. Fire-fighting Measures**

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None Known.

**SPECIAL FIREFIGHTING PROCEDURES:** Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

**EXTINGUISHING MEDIA:** Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Spray or Fog, Water

**6. Accidental Release Measures**

**ENVIRONMENTAL MEASURES:** Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate. Dispose of saturated absorbent or cleaning materials appropriately. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Use personal protective equipment as necessary. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Scrape up dried material and place into containers.

**7. Handling and Storage**

**HANDLING:** KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Use only with adequate ventilation. Ensure fresh air entry during application and drying. Wash thoroughly after handling.

**STORAGE:** Avoid excessive heat and freezing. Do not store at temperatures above 120 °F (49 °C). Store away from caustics and oxidizers.

**8. Exposure Controls/Personal Protection****Ingredients with Occupational Exposure Limits**

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>

Limestone	N.E.	N.E.	15 mg/m3 TWA total dust, 5 mg/m3 TWA respirable fraction	N.E.
Lubricating petroleum oil	N.E.	N.E.	N.E.	N.E.
Glycol ethers	N.E.	N.E.	N.E.	N.E.

**Further Advice:** MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation  
Sk = Skin Sensitizer N.E. = Not Established

## Personal Protection



**RESPIRATORY PROTECTION:** No personal respiratory protective equipment normally required.



**SKIN PROTECTION:** Rubber gloves.



**EYE PROTECTION:** Goggles or safety glasses with side shields.



**OTHER PROTECTIVE EQUIPMENT:** Not required under normal use.



**HYGIENIC PRACTICES:** Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Colored	<b>Physical State:</b>	Paste
<b>Odor:</b>	Very Slight Ammonia	<b>Odor Threshold:</b>	Not Established
<b>Density, g/cm3:</b>	1.58 - 1.58	<b>pH:</b>	Between 7.0 and 12.0
<b>Freeze Point, °C:</b>	Not Established	<b>Viscosity (mPa.s):</b>	Not Established
<b>Solubility in Water:</b>	Not Established	<b>Partition Coeff., n-octanol/water:</b>	Not Established
<b>Decomposition Temperature, °C:</b>	Not Established	<b>Explosive Limits, %:</b>	N.E. - N.E.
<b>Boiling Range, °C:</b>	100 - 100	<b>Auto-Ignition Temperature, °C</b>	Not Established
<b>Minimum Flash Point, °C:</b>	100	<b>Vapor Pressure, mmHg:</b>	Not Established
<b>Evaporation Rate:</b>	Slower Than n-Butyl Acetate	<b>Flash Method:</b>	Seta Closed Cup
<b>Vapor Density:</b>	Heavier Than Air	<b>Flammability, NFPA:</b>	Non-Flammable
<b>Combustible Dust:</b>	Does not support combustion		

(See "Other information" Section for abbreviation legend)

(If product is an aerosol, the flash point stated above is that of the propellant.)

## 10. Stability and Reactivity

**STABILITY:** Stable under recommended storage conditions.

**CONDITIONS TO AVOID:** Excessive heat and freezing.

**INCOMPATIBILITY:** Incompatible with strong bases and oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Normal decomposition products, i.e., COx, NOx.

## 11. Toxicological Information

**EFFECT OF OVEREXPOSURE - INHALATION:** Under normal use conditions, this product is not expected to cause adverse health effects. Inhalation of vapors in high concentration may cause mild irritation of respiratory system (nose, mouth, mucous membranes).

**EFFECT OF OVEREXPOSURE - SKIN CONTACT:** Under normal use conditions, this product is not expected to cause adverse health effects. Prolonged or repeated contact with skin may cause mild irritation.

**EFFECT OF OVEREXPOSURE - EYE CONTACT:** Under normal use conditions, this product is not expected to cause adverse health effects. Direct eye contact may cause irritation.

**EFFECT OF OVEREXPOSURE - INGESTION:** Under normal use conditions, this product is not expected to cause adverse health effects. Single dose oral toxicity is very low. Amounts ingested incidental to industrial handling are not likely to cause injury; however, ingestion of large amounts may cause injury.

**CARCINOGENICITY:** No Information

**EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS:** Repeated or prolonged exposure may cause mild irritation of eyes and skin. Constituents of this product include crystalline silica which, if inhalable, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimus exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

**PRIMARY ROUTE(S) OF ENTRY:** Skin Contact

### Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>
1317-65-3	Limestone	6450 mg/kg Rat	N.I.	N.I.
72623-86-0	Lubricating petroleum oil	>5000 mg/kg Rat	>2000 mg/kg Rabbit	N.I.
SEQ548	Glycol ethers	N.I.	N.I.	N.I.

N.I. = No Information

## 12. Ecological Information

**ECOLOGICAL INFORMATION:** Ecological injuries are not known or expected under normal use.

## 13. Disposal Information

**DISPOSAL INFORMATION:** This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulation, 40 CFR Section 261. Dispose as hazardous waste according to all local, state, federal and provincial regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Use personal protective equipment as necessary. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Scrape up dried material and place into containers.

## 14. Transport Information

**SPECIAL TRANSPORT PRECAUTIONS:** No Information

DOT UN/NA Number:	N.A.
DOT Proper Shipping Name:	Not Regulated
DOT Technical Name:	N.A.
DOT Hazard Class:	N.A.
Hazard SubClass:	N.A.
Packing Group:	N.A.

## 15. Regulatory Information

### SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

### TOXIC SUBSTANCES CONTROL ACT:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

## 16. Other Information

**Revision Date:** 4/11/2022 **Supersedes Date:** New MSDS  
**Reason for revision:** HazCom2012/GHS Conversion  
**Datasheet produced by:** Regulatory Department

### HMIS Ratings:

Health:	Flammability:	Reactivity:	Personal Protection:
1	0	0	X

VOC Less Water Less Exempt Solvent, g/L: 9.7

VOC Material, g/L: 7

VOC as Defined by California Consumer Product Regulation, Wt/Wt%: 0.02

VOC Actual, Wt/Wt%: 0.4

### Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H332 Harmful if inhaled.

### Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS07



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.



# Safety Data Sheet

**24 Hour Emergency Phone Numbers**  
**Medical/Poison Control:**  
**In U.S.: Call 1-800-222-1222**

**Outside U.S.: Call your local poison control center**

**Transportation/National Response Center:**

**1-800-535-5053**  
**1-352-323-3500**

NOTE: The National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this SDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this SDS are further described in Section 16.

## 1. Identification

<b>Product Name:</b>	Alex Plus Acrylic Latex Caulk Plus Silicone - Clear	<b>Revision Date:</b>	4/12/2022
<b>Product UPC Number:</b>	070798180710	<b>Supercedes Date:</b>	12/29/2021
<b>Manufacturer:</b>	DAP Global Inc. 2400 Boston Street Suite 200 Baltimore, MD 21224-4723 888-327-8477 (non - emergency matters)	<b>Product Use/Class:</b>	Caulking Compound
	SDS Coordinator: MSDS@dap.com	<b>SDS No:</b>	1001901
	Emergency Telephone: Transportation: 1-800-535 -5053 1-352-323-3500 Poison Control: 1-800-222-1222	<b>Preparer:</b>	Regulatory and Environmental Affairs

## 2. Hazards Identification

**EMERGENCY OVERVIEW:** Under normal use conditions, this product is not expected to cause adverse health effects. This product contains ethylene glycol.

### GHS Classification

Not a hazardous substance or mixture.

### Symbol(s) of Product

None

### Signal Word

Not a hazardous substance or mixture.

### Possible Hazards

9% of the mixture consists of ingredients of unknown acute toxicity

## 3. Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt. %</u>	<u>GHS Symbols</u>	<u>GHS Statements</u>
Lubricating petroleum oil	72623-86-0	7-13	GHS07	H332
Ethylene glycol	107-21-1	1-5	GHS07	H332
Glycol ethers	Proprietary	0.1-1.0	No Information	No Information

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

#### 4. First-aid Measures

**FIRST AID - INHALATION:** Material is not likely to present an inhalation hazard at ambient conditions. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

**FIRST AID - SKIN CONTACT:** In case of contact, wash skin immediately with soap and water.

**FIRST AID - EYE CONTACT:** In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

**FIRST AID - INGESTION:** If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

#### 5. Fire-fighting Measures

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None Known.

**SPECIAL FIREFIGHTING PROCEDURES:** Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

**EXTINGUISHING MEDIA:** Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Spray or Fog, Water

#### 6. Accidental Release Measures

**ENVIRONMENTAL MEASURES:** Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate. Dispose of saturated absorbent or cleaning materials appropriately. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Use personal protective equipment as necessary. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Scrape up dried material and place into containers.

#### 7. Handling and Storage

**HANDLING:** KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Use only with adequate ventilation. Ensure fresh air entry during application and drying. Wash thoroughly after handling.

**STORAGE:** Avoid excessive heat and freezing. Do not store at temperatures above 120 °F (49 °C). Store away from caustics and oxidizers.

#### 8. Exposure Controls/Personal Protection

##### Ingredients with Occupational Exposure Limits

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
Lubricating petroleum oil	N.E.	N.E.	N.E.	N.E.
Ethylene glycol	25 ppm TWA vapor fraction	50 ppm STEL vapor fraction, 10 mg/m <sup>3</sup> STEL inhalable particulate matter, aerosol only	N.E.	N.E.
Glycol ethers	N.E.	N.E.	N.E.	N.E.

**Further Advice:** MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

**Personal Protection****RESPIRATORY PROTECTION:** No personal respiratory protective equipment normally required.**SKIN PROTECTION:** Rubber gloves.**EYE PROTECTION:** Goggles or safety glasses with side shields.**OTHER PROTECTIVE EQUIPMENT:** Not required under normal use.**HYGIENIC PRACTICES:** Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.**9. Physical and Chemical Properties**

<b>Appearance:</b>	White ( changes to clear as it cures )	<b>Physical State:</b>	Paste
<b>Odor:</b>	Very Slight Ammonia	<b>Odor Threshold:</b>	Not Established
<b>Density, g/cm<sup>3</sup>:</b>	1.01 - 1.02	<b>pH:</b>	Between 7.0 and 12.0
<b>Freeze Point, °C:</b>	Not Established	<b>Viscosity (mPa.s):</b>	Not Established
<b>Solubility in Water:</b>	Not Established	<b>Partition Coeff., n-octanol/water:</b>	Not Established
<b>Decomposition Temperature, °C:</b>	Not Established	<b>Explosive Limits, %:</b>	N.E. - N.E.
<b>Boiling Range, °C:</b>	100 - 100	<b>Auto-Ignition Temperature, °C</b>	Not Established
<b>Minimum Flash Point, °C:</b>	100	<b>Vapor Pressure, mmHg:</b>	Not Established
<b>Evaporation Rate:</b>	Slower Than n-Butyl Acetate	<b>Flash Method:</b>	Seta Closed Cup
<b>Vapor Density:</b>	Heavier Than Air	<b>Flammability, NFPA:</b>	Non-Flammable
<b>Combustible Dust:</b>	Does not support combustion		

(See "Other information" Section for abbreviation legend)

(If product is an aerosol, the flash point stated above is that of the propellant.)

**10. Stability and Reactivity****STABILITY:** Stable under recommended storage conditions.**CONDITIONS TO AVOID:** Excessive heat and freezing.**INCOMPATIBILITY:** Incompatible with strong bases and oxidizing agents.**HAZARDOUS DECOMPOSITION PRODUCTS:** Normal decomposition products, i.e., CO<sub>x</sub>, NO<sub>x</sub>.**11. Toxicological Information****EFFECT OF OVEREXPOSURE - INHALATION:** Under normal use conditions, this product is not expected to cause adverse health effects. Inhalation of vapors in high concentration may cause mild irritation of respiratory system (nose, mouth, mucous membranes).**EFFECT OF OVEREXPOSURE - SKIN CONTACT:** Under normal use conditions, this product is not expected to cause adverse health effects. Prolonged or repeated contact with skin may cause mild irritation.**EFFECT OF OVEREXPOSURE - EYE CONTACT:** Under normal use conditions, this product is not expected to cause adverse health effects. Direct eye contact may cause irritation.**EFFECT OF OVEREXPOSURE - INGESTION:** Under normal use conditions, this product is not expected to cause adverse health effects. Single dose oral toxicity is very low. Amounts ingested incidental to industrial handling are not likely to cause injury; however, ingestion of large amounts may cause injury. Ingestion of ethylene glycol can cause gastrointestinal irritation, nausea, vomiting, diarrhea and if ingested in sufficient quantities, death.**CARCINOGENICITY:** No Information



**EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS:** Repeated or prolonged exposure may cause mild irritation of eyes and skin. Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene glycol has been shown to cause birth defects in laboratory animals.

**PRIMARY ROUTE(S) OF ENTRY:** Skin Contact

#### Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>
72623-86-0	Lubricating petroleum oil	>5000 mg/kg Rat	>2000 mg/kg Rabbit	N.I.
107-21-1	Ethylene glycol	4700 mg/kg Rat	9530 mg/kg Rabbit	N.I.
SEQ548	Glycol ethers	N.I.	N.I.	N.I.

N.I. = No Information

## 12. Ecological Information

**ECOLOGICAL INFORMATION:** Ecological injuries are not known or expected under normal use.

## 13. Disposal Information

**DISPOSAL INFORMATION:** This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulation, 40 CFR Section 261. Dispose as hazardous waste according to all local, state, federal and provincial regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Use personal protective equipment as necessary. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Scrape up dried material and place into containers.

## 14. Transport Information

DOT UN/NA Number:	N.A.
DOT Proper Shipping Name:	Not Regulated
DOT Technical Name:	N.A.
DOT Hazard Class:	N.A.
Hazard SubClass:	N.A.
Packing Group:	N.A.

## 15. Regulatory Information

### U.S. Federal Regulations:

#### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

None Known

#### SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
Ethylene glycol	107-21-1

**TOXIC SUBSTANCES CONTROL ACT:**

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

**16. Other Information**

**Revision Date:** 4/11/2022 **Supersedes Date:** 12/29/2021

**Reason for revision:** Substance Hazard Threshold % Changed  
Substance and/or Product Properties Changed in Section(s):  
01 - Product Information

**Datasheet produced by:** Regulatory Department

**HMIS Ratings:**

<b>Health:</b>	<b>Flammability:</b>	<b>Reactivity:</b>	<b>Personal Protection:</b>
1	0	0	X

**VOC Less Water Less Exempt Solvent, g/L:** 41.1

**VOC Material, g/L:** 22

**VOC as Defined by California Consumer Product Regulation, Wt/Wt%:** 0.01

**VOC Actual, Wt/Wt%:** 2.2

**Text for GHS Hazard Statements shown in Section 3 describing each ingredient:**

H332 Harmful if inhaled.

**Icons for GHS Pictograms shown in Section 3 describing each ingredient:**

GHS07



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

## SAFETY DATA SHEET

Creation Date 28-Apr-2009

Revision Date 24-Dec-2021

Revision Number 8

### 1. Identification

**Product Name** Acetone

**Cat No. :** AC177170000; AC177170010; AC177170025; AC177170050;  
AC177170100; AC177170250

**CAS No** 67-64-1  
**Synonyms** 2-Propanone

**Recommended Use** Laboratory chemicals.  
**Uses advised against** Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

##### Company

Fisher Scientific Company  
One Reagent Lane  
Fair Lawn, NJ 07410  
Tel: (201) 796-7100

Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

**Emergency Telephone Number** For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11  
Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99  
**CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

### 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Kidney, Liver, spleen, Blood.	

#### Label Elements

##### **Signal Word**

Danger

##### **Hazard Statements**

Highly flammable liquid and vapor  
 Causes serious eye irritation  
 May cause drowsiness or dizziness  
 May cause damage to organs through prolonged or repeated exposure



### Precautionary Statements

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep cool

#### Response

Get medical attention/advice if you feel unwell

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention

#### Fire

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

#### Storage

Store in a well-ventilated place. Keep container tightly closed  
 Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Repeated exposure may cause skin dryness or cracking

## 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Acetone	67-64-1	>95

## 4. First-aid measures

#### General Advice

If symptoms persist, call a physician.

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

	medical attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.
<b>Most important symptoms and effects</b>	. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: May cause pulmonary edema
<b>Notes to Physician</b>	Treat symptomatically

## 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
<b>Unsuitable Extinguishing Media</b>	Water may be ineffective
<b>Flash Point</b>	-20 °C / -4 °F
<b>Method -</b>	CC (closed cup)
<b>Autoignition Temperature</b>	465 °C / 869 °F
<b>Explosion Limits</b>	
<b>Upper</b>	12.8 vol %
<b>Lower</b>	2.5 vol %
<b>Oxidizing Properties</b>	Not oxidising
<b>Sensitivity to Mechanical Impact</b>	No information available
<b>Sensitivity to Static Discharge</b>	No information available

### Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Formaldehyde. Methanol.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### NFPA

<b>Health</b> 2	<b>Flammability</b> 3	<b>Instability</b> 0	<b>Physical hazards</b> N/A
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## 6. Accidental release measures

<b>Personal Precautions</b>	Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
<b>Environmental Precautions</b>	Should not be released into the environment.
<b>Methods for Containment and Clean Up</b>	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## 7. Handling and storage

<b>Handling</b>	Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.
<b>Storage.</b>	Flammables area. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Incompatible Materials. Strong oxidizing agents. Strong reducing agents. Strong bases. Peroxides. Halogenated compounds. Alkali metals. Amines.

## 8. Exposure controls / personal protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Acetone	TWA: 250 ppm STEL: 500 ppm	(Vacated) TWA: 750 ppm (Vacated) TWA: 1800 mg/m <sup>3</sup> (Vacated) STEL: 2400 mg/m <sup>3</sup> (Vacated) STEL: 1000 ppm TWA: 1000 ppm TWA: 2400 mg/m <sup>3</sup>	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m <sup>3</sup>	TWA: 500 ppm STEL: 750 ppm

### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment.
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### Personal Protective Equipment

<b>Eye/face Protection</b>	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
<b>Skin and body protection</b>	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Respiratory Protection</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

<b>Physical State</b>	Liquid
<b>Appearance</b>	Colorless
<b>Odor</b>	sweet
<b>Odor Threshold</b>	19.8 ppm
<b>pH</b>	7
<b>Melting Point/Range</b>	-95 °C / -139 °F
<b>Boiling Point/Range</b>	56 °C / 132.8 °F
<b>Flash Point</b>	-20 °C / -4 °F
<b>Method -</b>	CC (closed cup)
<b>Evaporation Rate</b>	5.6 (Butyl Acetate = 1.0)
<b>Flammability (solid,gas)</b>	Not applicable

**Flammability or explosive limits**

Upper	12.8 vol %
Lower	2.5 vol %
Vapor Pressure	247 mbar @ 20 °C
Vapor Density	2.0
Specific Gravity	0.790
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	465 °C / 869 °F
Decomposition Temperature	> 4°C
Viscosity	0.32 mPa.s @ 20 °C
Molecular Formula	C3 H6 O
Molecular Weight	58.08
Refractive index	1.358 - 1.359

## 10. Stability and reactivity

<b>Reactive Hazard</b>	None known, based on information available
<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.
<b>Incompatible Materials</b>	Strong oxidizing agents, Strong reducing agents, Strong bases, Peroxides, Halogenated compounds, Alkali metals, Amines
<b>Hazardous Decomposition Products</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Formaldehyde, Methanol
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing.

## 11. Toxicological information

**Acute Toxicity****Product Information****Component Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetone	5800 mg/kg ( Rat )	> 15800 mg/kg (rabbit) > 7400 mg/kg (rat)	76 mg/l, 4 h, (rat)

**Toxicologically Synergistic Products** Carbon tetrachloride; Chloroform; Trichloroethylene; Bromodichloromethane; Dibromochloromethane; N-nitrosodimethylamine; 1,1,2-Trichloroethane; Styrene; Acetonitrile, 2,5-Hexanedione; Ethanol; 1,2-Dichlorobenzene

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Irritation</b>	Irritating to eyes
<b>Sensitization</b>	No information available
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Acetone	67-64-1	Not listed	Not listed	Not listed	Not listed	Not listed

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

<b>Teratogenicity</b>	No information available.
<b>STOT - single exposure</b>	Central nervous system (CNS)
<b>STOT - repeated exposure</b>	Kidney Liver spleen Blood
<b>Aspiration hazard</b>	No information available
<b>Symptoms / effects, both acute and delayed</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: May cause pulmonary edema
<b>Endocrine Disruptor Information</b>	No information available
<b>Other Adverse Effects</b>	The toxicological properties have not been fully investigated.

## 12. Ecological information

### Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Acetone	NOEC = 430 mg/l (algae; 96 h)	Oncorhynchus mykiss: LC50 = 5540 mg/l 96h Alburnus alburnus: LC50 = 11000 mg/l 96h Leuciscus idus: LC50 = 11300 mg/L/48h Salmo gairdneri: LC50 = 6100 mg/L/24h	EC50 = 14500 mg/L/15 min	EC50 = 8800 mg/L/48h EC50 = 12700 mg/L/48h EC50 = 12600 mg/L/48h

**Persistence and Degradability** Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its volatility.

Component	log Pow
Acetone	-0.24

## 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Acetone - 67-64-1	U002	-

## 14. Transport information

### DOT

<b>UN-No</b>	UN1090
<b>Proper Shipping Name</b>	ACETONE
<b>Hazard Class</b>	3
<b>Packing Group</b>	II

### TDG

<b>UN-No</b>	UN1090
<b>Proper Shipping Name</b>	ACETONE
<b>Hazard Class</b>	3
<b>Packing Group</b>	II

### IATA

<b>UN-No</b>	UN1090
<b>Proper Shipping Name</b>	ACETONE
<b>Hazard Class</b>	3





Reportable Quantity (RQ): Y  
 DOT Marine Pollutant N  
 DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security** This product does not contain any DHS chemicals.

### Other International Regulations

**Mexico - Grade** Serious risk, Grade 3

### Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Acetone	-	Use restricted. See item 75. (see link for restriction details)	-

<https://echa.europa.eu/substances-restricted-under-reach>

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Acetone	67-64-1	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Acetone	67-64-1	Not applicable	Not applicable	Not applicable	Annex I - Y42

## 16. Other information

**Prepared By** Regulatory Affairs  
 Thermo Fisher Scientific  
 Email: EMSDS.RA@thermofisher.com

**Creation Date** 28-Apr-2009  
**Revision Date** 24-Dec-2021  
**Print Date** 24-Dec-2021

**Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Product name : DENATURED ALCOHOL  
 Product code : TS123

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Crown Paint Company  
 1801 W. Sheridan  
 Oklahoma City, 73106 - United States  
 T 1-405-232-8580  
[crownpaint@polyglasscoatings.com](mailto:crownpaint@polyglasscoatings.com) - [www.crownpaintok.com](http://www.crownpaintok.com)

#### 1.4. Emergency telephone number

Emergency number : In the event of an emergency involving dangerous goods:  
 in Canada call CHEMTREC at 1-800-424-9300 24 hours / 7 days (Account Name for Canada Endura Manufacturing Co. Ltd.)  
 in the US call CHEMTREC at 1-800-424-9300 24 hours / 7 days (Account Name for US is Polyglass Coatings)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable liquids Category 2	H225	Highly flammable liquid and vapor
Carcinogenicity Category 2	H351	Suspected of causing cancer
Specific target organ toxicity (single exposure) Category 1	H370	Causes damage to organs

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS-US) :



GHS02



GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor  
 H351 - Suspected of causing cancer  
 H370 - Causes damage to organs

Precautionary statements (GHS-US) :

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 - Keep container tightly closed.
- P240 - Ground/Bond container and receiving equipment
- P241 - Use explosion-proof electrical/ventilating/lighting equipment
- P242 - Use only non-sparking tools.
- P243 - Take precautionary measures against static discharge.
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 - Wash thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- P307+P311 - If exposed: Call a poison center/doctor
- P308+P313 - If exposed or concerned: Get medical advice/attention.
- P321 - Specific treatment (see 4.1. First aid procedures on this label)
- P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2) to extinguish

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P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with all local, regional, national and international regulations.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	wt%	GHS US classification
Isopropanol	(CAS-No.) 67-63-0	5 – 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
methanol	(CAS-No.) 67-56-1	< 5	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 STOT SE 1, H370
methyl isobutyl ketone	(CAS-No.) 108-10-1	< 5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a POISON CENTER or doctor/physician. Specific treatment (see 4.1. First aid procedures on this label). IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Assure fresh air breathing. Allow the victim to rest. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off all contaminated clothing immediately. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: May cause moderate irritation.
Symptoms/effects after eye contact	: Irritation to eyes.
Symptoms/effects after ingestion	: Harmful if swallowed.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
Reactivity	: Highly flammable liquid and vapor.

### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
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#### 6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapors/spray.
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#### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray. For further information refer to section 8 Exposure controls/personal protection".
Emergency procedures	: Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. Collect spillage. Minimize generation of dust. Store away from other materials. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 8 : Exposure-controls/personal protection".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Ensure good ventilation of the work station. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ground/bond container and receiving equipment. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical/ventilating/lighting equipment.
Storage conditions	: Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Keep in fireproof place. Store in a well-ventilated place. Keep cool. Store locked up.
Incompatible products	: Strong bases. strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Isopropanol (67-63-0)		
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	400 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr; CNS impair
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	400 ppm
methanol (67-56-1)		
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	250 ppm
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
methyl isobutyl ketone (108-10-1)		
ACGIH	ACGIH TWA (ppm)	20 ppm (Methyl isobutyl ketone; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	75 ppm (Methyl isobutyl ketone; USA; Short time value; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	URT irr; dizziness; headache
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	410 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	100 ppm

#### 8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses. Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear approved mask. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Environmental exposure controls	: Avoid release to the environment.
Other information	: When using, do not eat, drink or smoke.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: No data available
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 79.1 °C 174.5 °F
Flash point	: 11 °C 51.8 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available

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Explosion limits	: 6 – 36 vol %
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 0.8 g/cm <sup>3</sup>
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: 385 °C 725 °F
Decomposition temperature	: No data available
Viscosity	: 10 cP
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapor.

### 10.2. Chemical stability

Not established. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Dermal; Inhalation; Skin and eye contact

Acute toxicity : Not classified

<b>Isopropanol (67-63-0)</b>	
LD50 oral rat	5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	12882 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Converted value, Dermal, 14 day(s))
LC50 inhalation rat (ppm)	> 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (oral)	5840 mg/kg body weight
ATE US (dermal)	12882 mg/kg body weight
<b>methanol (67-56-1)</b>	
LD50 oral rat	1187 – 2769 mg/kg body weight (BASF test, Rat, Male / female, Experimental value, Aqueous solution, Oral, 7 day(s))
LC50 inhalation rat (mg/l)	128 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours))
ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (dust, mist)	0.5 mg/l/4h

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<b>methyl isobutyl ketone (108-10-1)</b>	
LD50 oral rat	2080 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rat	≥ 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	8.2- 16.4,Rat; Experimental value
LC50 inhalation rat (ppm)	2000 – 4000 ppm/4h (Rat; Experimental value)
ATE US (oral)	2080 mg/kg body weight
ATE US (gases)	2000 ppmV/4h
ATE US (dust, mist)	1.5 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

<b>methyl isobutyl ketone (108-10-1)</b>	
IARC group	2B - Possibly Carcinogenic to Humans

Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Causes damage to organs.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: May cause moderate irritation.
Symptoms/effects after eye contact	: Irritation to eyes.
Symptoms/effects after ingestion	: Harmful if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
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<b>Isopropanol (67-63-0)</b>	
LC50 fish 1	9640 – 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)

<b>methanol (67-56-1)</b>	
LC50 fish 1	15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect)

### 12.2. Persistence and degradability

<b>DENATURED ALCOHOL</b>	
Persistence and degradability	Not established.

<b>Isopropanol (67-63-0)</b>	
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.19 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.23 g O <sub>2</sub> /g substance
ThOD	2.4 g O <sub>2</sub> /g substance

<b>methanol (67-56-1)</b>	
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.



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<b>methanol (67-56-1)</b>	
Biochemical oxygen demand (BOD)	0.6 – 1.12 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.42 g O <sub>2</sub> /g substance
ThOD	1.5 g O <sub>2</sub> /g substance

<b>methyl isobutyl ketone (108-10-1)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Low potential for adsorption in soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	2.06 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.16 g O <sub>2</sub> /g substance
ThOD	2.72 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.76

### 12.3. Bioaccumulative potential

<b>DENATURED ALCOHOL</b>	
Bioaccumulative potential	Not established.

<b>Isopropanol (67-63-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.05 (Weight of evidence approach, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

<b>methanol (67-56-1)</b>	
BCF fish 1	1 – 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	-0.77 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

<b>methyl isobutyl ketone (108-10-1)</b>	
BCF fish 1	2 – 5 (BCF)
Partition coefficient n-octanol/water (Log Pow)	1.9 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

<b>Isopropanol (67-63-0)</b>	
Surface tension	No data available (test not performed)
Ecology - soil	Highly mobile in soil.

<b>methanol (67-56-1)</b>	
Surface tension	No data available in the literature
Partition coefficient n-octanol/water (Log Koc)	-0.89 – -0.21 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.

<b>methyl isobutyl ketone (108-10-1)</b>	
Surface tension	0.024 N/m (20 °C)
Partition coefficient n-octanol/water (Log Koc)	Koc, 101.85; Weight of evidence; Calculated value; log Koc; 2.008; Weight of evidence; Calculated value

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with all local, regional, national and international regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable. Flammable vapors may accumulate in the container.
Ecology - waste materials	: Avoid release to the environment.

# DENATURED ALCOHOL

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### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1987 Alcohols, n.o.s., 3, II

UN-No.(DOT) : UN1987

Proper Shipping Name (DOT) : Alcohols, n.o.s.

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102) : 172 - This entry includes alcohol mixtures containing up to 5% petroleum products.  
IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.  
T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)  
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / 1 + a (tr - tf)$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.  
TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).  
TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 4b;150

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

Emergency Response Guide (ERG) Number : 127

Other information : No supplementary information available.

#### Transportation of Dangerous Goods

Transport document description : UN1987 ALCOHOLS, N.O.S., 3, II

UN-No. (TDG) : UN1987

Proper Shipping Name (Transportation of Dangerous Goods) : ALCOHOLS, N.O.S.

TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids

Packing group : II - Medium Danger

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TDG Special Provisions : 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a)UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b)UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c)UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d)UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e)UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act". (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a)UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b)UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS. SOR/2014-306,150 - An emergency response assistance plan (ERAP) is required for these dangerous goods under subsection 7.1(6) of Part 7 (Emergency Response Assistance Plan).

Explosive Limit and Limited Quantity Index : 1 L  
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5 L

### Transport by sea

UN-No. (IMDG) : 1987  
Proper Shipping Name (IMDG) : ALCOHOLS, N.O.S.  
Class (IMDG) : 3 - Flammable liquids  
Packing group (IMDG) : II - substances presenting medium danger

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Isopropanol	CAS-No. 67-63-0	5 – 10%
methanol	CAS-No. 67-56-1	< 5%
methyl isobutyl ketone	CAS-No. 108-10-1	< 5%

#### Isopropanol (67-63-0)

Listed on SARA Section 313 (Specific toxic chemical listings)

#### methanol (67-56-1)

Listed on SARA Section 313 (Specific toxic chemical listings)

CERCLA RQ : 5000 lb

#### methyl isobutyl ketone (108-10-1)

Listed on SARA Section 313 (Specific toxic chemical listings)

CERCLA RQ : 5000 lb

### 15.2. International regulations

#### CANADA

##### DENATURED ALCOHOL

Listed on the Canadian DSL (Domestic Substances List) inventory.

### EU-Regulations

No additional information available

### National regulations

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### **methyl isobutyl ketone (108-10-1)**

Listed on IARC (International Agency for Research on Cancer)

### **15.3. US State regulations**

This product can expose you to methyl isobutyl ketone, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### **methanol (67-56-1)**

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	Yes	No	No	

#### **methyl isobutyl ketone (108-10-1)**

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	Yes	No	No	

#### **Isopropanol (67-63-0)**

U.S. - New Jersey - Right to Know Hazardous Substance List

#### **methanol (67-56-1)**

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

#### **methyl isobutyl ketone (108-10-1)**

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

## **SECTION 16: Other information**

Revision date : 07/16/2021

Other information : None.

Full text of H-phrases:

H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H370	Causes damage to organs

SDS US Endura

*The information contained here has been compiled from sources considered by Endura Manufacturing Co. Ltd to be dependable and is accurate to the best of the Company's knowledge. However, neither Endura Manufacturing Co. Ltd or any of its subsidiaries assume any liability whatsoever for the accuracy of completeness of the information contained herein. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.*



**3M** Science.  
Applied to Life.™

English-US

**Last Revision Date:** June, 2024

**Supersedes:** May, 2022

## Technical Data Sheet

3M™ Fastbond™ Contact Adhesive 30-NF



[Product Details](#)



[Regulatory Info/SDS](#)

### **Product Description**

3M™ Fastbond™ Contact Adhesive 30-NF is a water-dispersed, sprayable contact adhesive for long bonding range.

### **Product Features**

- Non-flammable in the wet state.
- Post-formable and heat resistant.
- Bonds most foamed plastics, plastic laminate, wood, plywood, and canvas to themselves and to each other.
- 3M™ Fastbond™ Contact Adhesive 30 has been tested and approved for use by the Woodwork Institute of California under the provisions of ANSI/HPMA HP 1983 for Type II adhesive and the heat resistance test set forth in its Manual of Millwork.
- Fastbond contact adhesive 30 is recognized under the Component Program Underwriter's Laboratories, Inc. Component Recognition Program Guide GSRJ2, File R14485, Door Construction Materials. For use with swinging type fire doors of the hollow metal and steel composite types rated up to and including 3 hours.
- PPAP (Production Part Approval Process) documentation has been issued for 3M™ Fastbond™ Contact Adhesive 30H. (30 Low Mist)
- Not recommended for drywall laminating or for bonding metal surfaces (unless metal surfaces are completely dried by force drying and protected from moisture).
- Certified to GREENGUARD® Product Emission Standard For Children and Schools(SM) for low emitting interior building materials:
  - Addresses or Contributes to LEED® EQ Credit 4.1: Low Emitting Materials: Adhesive and Sealants
  - Addresses or Contributes to LEED® EQ Credit 4.3: Low Emitting Materials: Flooring Materials
  - Addresses or Contributes to LEED® EQ Credit 4.4: Low Emitting Materials: Composite Wood and Agrifiber Products
  - Addresses or Contributes to LEED® EQ Credit 4.5: Low Emitting Materials: Furniture and Furnishings
  - Addresses or Contributes to LEED® EQ Credit 4.6: Low Emitting Materials: Ceiling and Wall Systems



### **Technical Information Note**

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

## Typical Uncured Physical Properties

Attribute Name	Value
Net Weight	8.9 — 9.3 lb/gal

## Typical Physical Properties

Attribute Name	Temperature	Value
Color		Green when wet. Darker green when dry. Neutral, White (Wet), Clear (Dry)
Solids Content by Weight		47 — 51 %
Base		Polychloroprene
Solvent Resistance		Water Methanol <2% Toluene <3%
Coverage		680 ft <sup>2</sup> /gal <sup>1</sup>
Viscosity	27 °C (80 °F)	200 — 750 cP <sup>2</sup>

<sup>1</sup> @ 3 g/ft<sup>2</sup> dry

<sup>2</sup> Brookfield Viscometer RVF #2 spindle @ 20 rpm

Attribute Name	Value
*Note	When bonding wood veneers, success is dependent on many variables such as environmental conditions, bonding process, type of base material, type of veneer, adhesive type and top coat finishing systems to name a few. For un-backed wood veneers, water based contact adhesives are not recommended. It is the user's responsibility to thoroughly test any adhesive for its suitability in bonding wood veneers. It is also recommended to follow the veneer manufacturers recommendation and industry guidelines.

## Typical Performance Characteristics

### 180° Peel Adhesion

Substrate: Canvas to Steel

Dwell Time	Temperature	Value
24 h	22 °C (72 °F)	400 oz/in
72 h	22 °C (72 °F)	560 oz/in
120 h	22 °C (72 °F)	480 oz/in
168 h	22 °C (72 °F)	320 oz/in
2 week	22 °C (72 °F)	320 oz/in
3 week	22 °C (72 °F)	240 oz/in
3 week	-34 °C (-29 °F)	80 oz/in
3 week	66 °C (150 °F)	160 oz/in
3 week	82 °C (180 °F)	160 oz/in

## Overlap Shear Strength

Substrate: Birch to Birch

Temperature	Test Condition	Value
22 °C (72 °F)		480 lb/in <sup>2</sup> <sup>1</sup>
	-34°C (-30°F)	1,100 lb/in <sup>2</sup> <sup>1</sup>
	82°C (180°F)	60 lb/in <sup>2</sup> <sup>1</sup>
	93°C (200°F)	30 lb/in <sup>2</sup> <sup>1</sup>
	107°C (225°F)	40 lb/in <sup>2</sup> <sup>1</sup>

<sup>1</sup> 1/8in thick substrates

## Static Shear

Substrate: Birch to High-Pressure Laminate

Dwell Time	Temperature	Value
3 month	22 °C (72 °F)	315 lb/in <sup>2</sup> <sup>1</sup>
3 month	66 °C (150 °F)	140 lb/in <sup>2</sup> <sup>1</sup>
3 month	82 °C (180 °F)	80 lb/in <sup>2</sup> <sup>1</sup>
6 month	22 °C (72 °F)	305 lb/in <sup>2</sup> <sup>1</sup>
6 month	66 °C (150 °F)	150 lb/in <sup>2</sup> <sup>1</sup>
6 month	82 °C (180 °F)	75 lb/in <sup>2</sup> <sup>1</sup>
9 month	22 °C (72 °F)	285 lb/in <sup>2</sup> <sup>1</sup>
9 month	66 °C (150 °F)	125 lb/in <sup>2</sup> <sup>1</sup>
9 month	82 °C (180 °F)	50 lb/in <sup>2</sup> <sup>1</sup>
	22 °C (72 °F)	265 lb/in <sup>2</sup> <sup>1</sup>
	66 °C (150 °F)	130 lb/in <sup>2</sup> <sup>1</sup>
	82 °C (180 °F)	30 lb/in <sup>2</sup> <sup>1</sup>

<sup>1</sup> Laminate sprayed with adhesive, dried, and stored @RT for the given time (free of dust and dirt). Adhesive sprayed to birch and dried for 10 min. Pinch roller bond samples and aged 3 weeks. Adhesive can be activated with certain contact adhesives.

## Flatwise Tensile Strength

Temperature	Value
22 °C (72 °F)	113 (particle board failure) lb/in <sup>2</sup> <sup>1</sup>
66 °C (150 °F)	55 lb/in <sup>2</sup> <sup>1</sup>
82 °C (180 °F)	30 lb/in <sup>2</sup> <sup>1</sup>
93 °C (200 °F)	27 lb/in <sup>2</sup> <sup>1</sup>

<sup>1</sup> High pressure laminate/particle board. Test speed = 0.05 in./min.

## **Handling/Application Information**

### **Directions for Use**

1. **Surface Preparation:** Surfaces must be clean, dry and dust free. Wiping with a solvent such as 3M™ Scotch-Grip™ Solvent No. 3\* will aid in removing oil and dirt. Temperature of adhesive and surfaces during fabrication should be at least 65°F (18°C). If used for decorative plastic laminates, the laminate should have reached moisture equilibrium for the shop conditions.
  2. **Application:** Apply a uniform, generous coat of adhesive to both surfaces with a nylon brush, roller (texturing type), or spray. One coat is usually sufficient on most surfaces. Dull spots when dry indicate insufficient adhesive. Very porous material may require more than one coat. (Allow adhesive to dry completely between coats.) A uniform, glossy film indicates sufficient adhesive.
  3. **Coverage:** Coverage is dependent upon porosity of the substrate and the method by which the adhesive is applied. Use 3.0-3.5 gms/ft<sup>2</sup> of dry adhesive per surface for wood, particle board and high pressure laminates with the adhesive applied by spray or roller. More adhesive (lower coverage) is recommended if very soft wood, fabrics, foams, etc. are to be bonded, or if the adhesive is applied by brushing.
  4. **Drying Time:** The adhesive dries sufficiently in 30 minutes under normal temperatures and humidities to make bonds. High humidity will slow the drying; high temperature will speed the drying. After the adhesive is dry the bond must be completed within four hours.
  5. **Assembly:** Spacers, such as dowels or strips of laminate, may be used to help prevent premature adhesive to adhesive contact and bonding prior to positioning. Slide out the spacers and apply uniform pressure, working toward the edges.  
A 3 in wide (maximum) roller with maximum body pressure should be used to help ensure adequate contact and bonding, especially on edges. Bonded assemblies may be machined, trimmed, etc. immediately after bonding. The use of a pinch or nip roll is preferred for optimum performance.
  6. **Cleanup:** If adhesive has not dried, clean equipment with water containing a small amount of detergent.\*\* Adhesive cannot be cleaned off rollers or brushes after it has dried.
- \*When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer's precautions and directions for use.  
\*\*Cleaning solution: One pint of cleaner to five gallons of water. Flush with clean water.

### **Application Techniques**

**Working Temperature:** The adhesive and both surfaces to be bonded should be 65°F (18°C) or above at the time of bonding. After storage at low temperature and before using, the adhesive must be warmed to room temperature. Do not place in oven or on stove; bring to temperature by placing in a warm room. If this is not done, the open time and other working properties of the adhesive may be adversely affected.

**Use Enough Adhesive:** It is important to remember that it is difficult to use too much adhesive, but you can have problems if you don't use enough. 3M™ Fastbond™ Contact Adhesive 30 must be applied to both surfaces. Adhesive can be applied by spray (see Application Equipment Suggestions), brush or a texturing type roller.

Non-porous surfaces should require only one coat, while porous surfaces may require two coats. Wherever you use more than one coat, be sure to let the adhesive dry completely between coats. Hardwoods, tempered hardboard and decorative laminates are non-porous. Soft woods, untempered hardboard, plywood and plaster are typical porous surfaces which may require two coats.

**Note:** 3M water-dispersed contact adhesives should never be thinned.

**Let Adhesive Dry Completely:** Under normal temperature and humidity conditions, Fastbond contact adhesive 30 will dry in approximately 30 minutes. In very warm, low humidity conditions, drying may take as little as 10-15 minutes. Lower temperatures and higher humidity mean slower drying. When the adhesive coating completely loses its milky appearance and becomes clear it is ready to bond. You have four (4) hours after the adhesive is dry in which to complete the bonding job. You can bond as soon as it is dry, but the longer you wait the stronger the initial bond will be.

To speed drying, infrared heat lamps may be used. When force drying is used, assembly and bonding must be completed while one or both of the bonding surfaces is warm. If both surfaces are cold, reheat either or both before bonding.

If your two surfaces do not grab onto each other immediately when brought into contact, the adhesive has dried too long or not enough adhesive was applied. In either case, another coat of adhesive over each surface will remedy the problem.

**Apply Pressure Thoroughly:** Bonding is immediate upon contact. Sustained pressure is not required, but good uniform pressure must be applied to every square inch of the surface. Apply pressure by using heavy body pressure on a small (not over 3") hand "J"-roller. The use of a pinch roll is preferred for optimum performance.

**Note:** Rolling pins and other wide rollers are unsatisfactory because they bridge low spots and because they distribute the pressure over too large an area.

**Assembling:** Position the surfaces carefully before assembly. No adjustment is possible after the adhesive films make contact. Use the paper slip sheet method or spacers to position large pieces.

**Finishing:** Bonded assemblies can be machined, trimmed and finished immediately after bonding.



**Cleaning:**Brushes or rollers which are to be reused should be wrapped with plastic wrap to keep adhesive wet as complete cleaning is difficult.

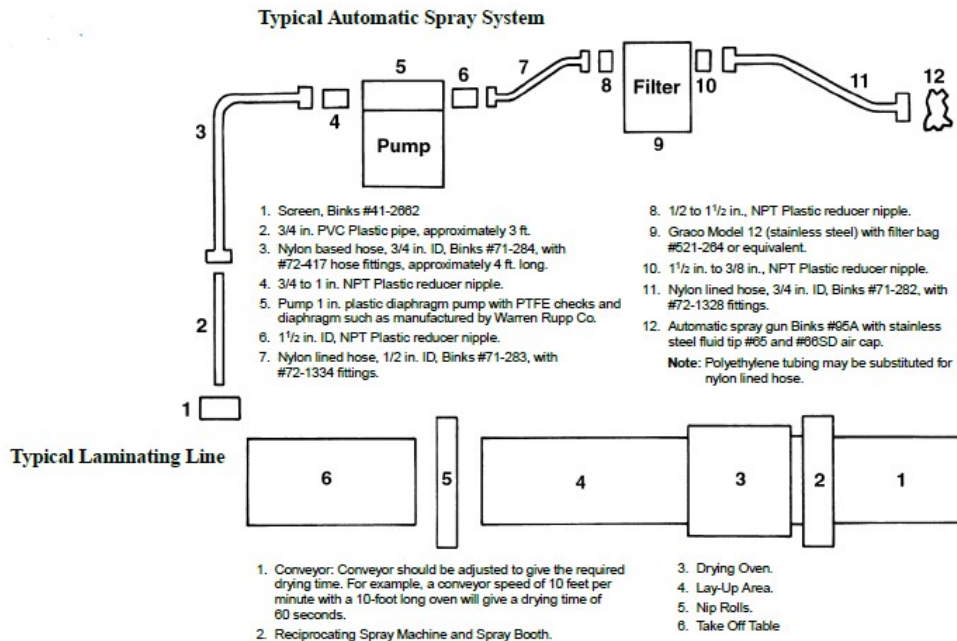
**Note:**Never pour solvent onto a bonded surface; it will attack the adhesive line and weaken the bond. Just wipe with cloth dampened in solvent or cleaner such as 3M™ Citrus Base Cleaner.\* Turpentine will not dissolve the adhesive.  
\*When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer’s precautions and directions for use.

**Application Equipment**

**Note:**Appropriate application equipment can enhance adhesive performance. We suggest the following application equipment for the user’s evaluation in light of the user’s particular purpose and method of application.

1. Air Atomizing Spray Equipment

Hand Held Spray Applicators	Air Cap	Fluid Tip	Air Pressure	Approximate Air Requirement	Fluid Flow*
Binks 2001SS, 95	66SD	65SS	10-15 psi	6 scfm @ 20 psi	9-12 fl. oz./min.
DeVilbiss MSA-510	#30	FF	10-15 psi	6 scfm @ 20 psi	9-12 fl. oz./min.
<b>H.V.L.P. (high volume, low pressure)</b>					
Binks Mach 1	95P	94F	30 psi	11 scfm @ 30 psi	9-12 fl. oz./min.
<b>Automatic Spray Applicators</b>					
Binks No. 95A	66SD	65SS	10-15 psi	6 scfm @ 20 psi	9-12 fl. oz./min.
H.V.L.P. Mach 1A	95P	94F	30 psi	11 scfm @ 30 psi	9-12 fl. oz./min.



\*To measure fluid flow: Pressurize fluid source only; pull trigger; flow material into measuring device for 60 seconds; increase or decrease fluid source pressure to obtain desired fluid flow.

**Note:**Low pressure, air operated piston pumps should not be used with these products.

- 2. Pressure Pot: Polyethylene liner. Dip tube and fittings should be plastic or stainless steel.
- 3. Pumping Equipment: 1 in plastic diaphragm pump with PTFE checks and diaphragms such as manufactured by Warren Rupp Co.
- 4. Filter: (pump output) Graco model 12 (stainless steel) with filter bag #521-264 or equivalent.
- 5. Airless Spray: This product can be airless sprayed. Fluid tips ranging from .018 in to .031 in at fluid pressures up to 1,100 psi are normally used.
- 6. Hoses: All material hoses should be nylon or polyethylene lined with plastic or stainless steel fittings.

7. Roll Coating: 3M™ Fastbond™ Contact Adhesive 30H may be coated with a machine type roll coater such as manufactured by Black Bros., Mendota, IL. Roll covering should be urethane with 24 grooves per inch for most applications.

Start Up, Maintenance and Shut Down for Automatic Spray Lines:

Water-based adhesives differ from solvent based adhesives in two major respects:

1. Dried water-based adhesive will not dissolve in the wet adhesive.
2. The presence of water in the system creates the potential for corrosion of or reaction with certain metals, such as copper, brass, steel, aluminum, etc. As a result, extra care is required to assure proper functioning of spray equipment. The attached schematic of a suggested spray system, start-up

procedure for this system, and suggested maintenance program, were developed with the properties of 3M water-based adhesives in mind.

Start-Up Procedure for Air Atomizing Spray System with Rupp Pump

1. Connect pump to piping system. Flush lines and pipes with hot, soapy water\* to remove possible contaminants before attaching pump or spray gun. Flush thoroughly with clean water. Blow out excess water. Do not connect fluid line to spray applicator.
2. If pump has not been supplied with air regulator, attach regulator and gauge to air inlet of pump.
3. Close air inlet valve on pump and attach regulator inlet to air supply.
4. Adjust regulator to "0" pressure reading on the gauge.
5. Open air inlet valve all the way and tighten lock nut.
6. Insert suction tube in adhesive so that inlet to tube is at bottom of container.
7. Direct end of fluid hose into a waste container.
8. Start pump by increasing regulated inlet air pressure (approximately 5 psi will be required).
9. Run pump until all traces of air are out of the system and adhesive is flowing in a steady, uninterrupted stream.
10. Shut off pump by reducing inlet air pressure to "0" psi or disconnecting inlet air line from regulator.
11. Immediately connect fluid hose to spray applicator.
12. Turn on pump and manually trigger applicator a few times to purge air from applicator.
13. Set flow rate of spray applicator by increasing or decreasing inlet air pressure to pump (normally 5-30 psi).
14. Adjust atomizing air pressure and fan air to obtain desired spray pattern (normally 10-20 psi).

\*Cleaning solution: One pint detergent to five gallons of water. Flush with clean water.

Maintenance Program

1. Filter: Follow the manufacturer's instructions for disassembling filter. Remove dirty filter bag and replace with clean bag. Do not allow adhesive to dry. Reassemble filter immediately.

2. Pump: To remove pump from system for cleaning, disconnect fluid line at outlet of pump and insert threaded plug into fluid line to prevent drying of adhesive. Remove suction line from adhesive and place in 5 gallons of soapy water.\*\* Flush through the pump. Disconnect siphon line at inlet to pump and invert pump to allow water to drain out. Follow disassembly instructions to remove manifold, diaphragms and valves. Soak these parts in 3M™ Adhesive Remover or equivalent until adhesive has been sufficiently loosened and can be rubbed off.\* Dry parts overnight at room temperature or 2 to 3 hours at 120°F (49°C) before reassembling pump. Do not install parts until all odor is gone. If pump must be returned to service quickly, a second set of diaphragms and valves should be purchased and installed while the first set is being cleaned. To put the pump back into operation, follow steps 6 through 12 in Start-Up Procedure.

3. Spray Applicator: Should the fluid tip become plugged, shut off pump by reducing inlet air pressure to "0" psi, or disconnect inlet air. Manually trigger applicator to relieve pressure in fluid lines. Remove tip, wipe any particles from fluid needle with damp cloth and immediately install a clean fluid tip. (**Note:** Fluid tips must be stainless steel.) Do not allow adhesive to dry in applicator or tip. Plugged tip may be rinsed in water and soaked in mineral spirits, followed by brushing with stiff bristle brush to remove adhesive. Air caps which become coated with adhesive should be replaced with clean caps. Soak adhesive coated caps in mineral spirits to clean.\*

\*When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer's precautions and directions for use.

\*\*Cleaning solution: One pint cleaner to five gallons of water. Flush with clean water.

#### **Attention:**

1. Do not use fluid lines that have previously been used with solvents whether flammable or non-flammable.
2. Do not use "rubber" lined hose. Hose should be either flexible polyethylene or nylon lined. All hose and pipe fittings should be plastic or stainless steel. DO NOT use copper, aluminum, brass or steel fittings.
3. A pressure pot may be used in place of the pump. In this case, a polyethylene bag liner should be used. Also the DIP TUBE AND FITTINGS SHOULD BE CHANGED TO PLASTIC OR STAINLESS STEEL.

## **Industry Specifications**

Tested to GMW 14892

- Tested and approved for use by the Woodwork Institute of California under the provisions of ANSI/HPMA HP 1983 for Type II adhesive and the heat resistance test set forth in its Manual of Millwork.
- Recognized under the Component Program Underwriter's Laboratories, Inc. Component Recognition Program Guide GSRJ2, File R14485, Door Construction Materials. For use with swinging type fire doors of the hollow metal and steel composite types rated up to and including 3 hours.
- PPAAP (Production Part Approval Process) documentation has been issued for 3M™ Fastbond™ Contact Adhesive 30H.

(30 Low Mist)

- Certified to GREENGUARD® Product Emission Standard For Children and Schools(SM) for low emitting interior building materials:
  - Addresses or Contributes to LEED® EQ Credit 4.1: Low Emitting Materials: Adhesive and Sealants
  - Addresses or Contributes to LEED® EQ Credit 4.3: Low Emitting Materials: Flooring Materials
  - Addresses or Contributes to LEED® EQ Credit 4.4: Low Emitting Materials: Composite Wood and Agrifiber Products
  - Addresses or Contributes to LEED® EQ Credit 4.5: Low Emitting Materials: Furniture and Furnishings
  - Addresses or Contributes to LEED® EQ Credit 4.6: Low Emitting Materials: Ceiling and Wall Systems

## **Storage and Shelf Life**

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original, unopened packaging, out of direct sunlight. Lower temperatures cause increased viscosity of a temporary nature. Product will become unusable with prolonged storage under 4°C (40°F). Protect from freezing. For best performance, use this product within 21 months from date of manufacture.

## **Precautionary Information**

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577

## **Automotive Disclaimer**

### **Select Automotive Applications:**

This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

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**Technical Information:** The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

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## **ISO Statement**

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

3M™ Industrial Adhesives and Tapes Division  
3M Center, St. Paul, MN 55144-1000  
[3M.com/iatd](http://3M.com/iatd)

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### SECTION 1: Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : Seamfil

#### 1.2. Recommended use and restrictions on use

Recommended use : Paint

#### 1.3. Supplier

##### Manufacturer

Kampel Enterprises  
8930 Carlisle Rd  
Wellsville, PA 17365-157  
USA  
T 800-837-4971  
[info@kampelent.com](mailto:info@kampelent.com)

#### 1.4. Emergency telephone number

Emergency number : 1-800-837-4971

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS CA)

Flam. Liq. 2	H225	Highly flammable liquid and vapour.
Eye Irrit. 2A	H319	Causes serious eye irritation.
Repr. 2	H361	Suspected of damaging the unborn child.
STOT SE 3	H336	May cause drowsiness or dizziness.
STOT RE 1	H372	Causes damage to organs through prolonged or repeated exposure.

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-CA labelling

Hazard pictograms (GHS-CA) :



Signal word (GHS CA) : Danger

Hazard statements (GHS-CA) : H225 - Highly flammable liquid and vapour.  
H319 - Causes serious eye irritation.  
H336 - May cause drowsiness or dizziness.  
H361 - Suspected of damaging the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS-CA) : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.

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P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical, lighting, ventilating equipment.  
P242 - Use only non-sparking tools.  
P243 - Take action to prevent static discharges.  
P260 - Do not breathe dust, fume, gas, spray, vapours, mist.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective clothing, eye protection, face protection.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P403+P235 - Store in a well-ventilated place. Keep cool  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS CA)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Methyl ethyl ketone	Butan-2-one / 2-Butanone / Ethyl methyl ketone / Methyl acetone / MEK / Butanone	CAS-No.: 78-93-3	10 – 30
Acetone	Dimethyl ketone / 2-Propanone / ACETONE / Propan-2-one / Propanone	CAS-No.: 67-64-1	10 – 30
Toluene	Benzene, methyl- / Methylbenzene / Phenylmethane / TOLUENE	CAS-No.: 108-88-3	1 – 10

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Name	Chemical name / Synonyms	Product identifier	%
Propylene glycol monomethyl ether acetate	Acetate, 1-methoxy-2-propyl / Acetic acid, 2-methoxy-1-methylethyl ester / 2-Methoxy-1-methylethyl acetate / 1-Methoxy-2-acetoxypropane / 1-Methoxy-2-propanol acetate / 1-Methoxypropyl-2-acetate / 2-Propanol, 1-methoxy-, acetate / Propylene glycol methyl ether acetate / 1-Methoxypropylacetate / 1-Methoxy-2-propyl acetate / Methoxyisopropyl acetate / 1-Methoxypropyl acetate / 2-Propanol, 1-methoxy-, 2-acetate / 2-Acetic acid methoxy-1-methylethyl ester / METHOXYISOPROPYL ACETATE / Propylene glycol methyl ether acetate, .alpha.-isomer / PGMEA / 1-Methoxypropan-2-yl acetate / Acetic acid, 2-methoxyisopropyl ester / 1-Methoxypropan-2-ol acetate / Propylene glycol methyl ether acetate (all isomers)	CAS-No.: 108-65-6	1 – 10
Ethyl alcohol	Methylcarbinol / Ethanol / ALCOHOL / Alcohol anhydrous / Alcohol / Grain alcohol / Anhydrous ethanol	CAS-No.: 64-17-5	0.5 – 5

Comments : \*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash clothing before re-using. Get medical attention if irritation develops and persists.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.

#### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment	: Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

Suitable extinguishing media	: Carbon dioxide (CO <sub>2</sub> ). Extinguishing powder. Water spray. Alcohol resistant foam.
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### 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use water jet.

### 5.3. Specific hazards arising from the hazardous product

Fire hazard : Highly flammable liquid and vapour. Products of combustion may include, and are not limited to: oxides of carbon. Irritating vapours.

Explosion hazard : May form flammable/explosive vapour-air mixture.

### 5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Move containers away from the fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use special care to avoid static electric charges. Remove all sources of ignition.

### 6.2. Methods and materials for containment and cleaning up

For containment : Stop leak if safe to do so. Remove ignition sources. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/ spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Take action to prevent static discharges. Use only non-sparking tools. Use explosion-proof electrical/ventilating/ lighting/equipment.

Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Store locked up. Keep away from food, drink and animal feeding stuffs.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<b>Methyl ethyl ketone (78-93-3)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA [ppm]	200 ppm
ACGIH OEL STEL [ppm]	300 ppm
<b>USA - ACGIH - Biological Exposure Indices</b>	
BEI	2 mg/l Parameter: MEK - Medium: urine - Sampling time: end of shift (nonspecific)
<b>USA - OSHA - Occupational Exposure Limits</b>	
OSHA PEL TWA [1]	590 mg/m <sup>3</sup>
OSHA PEL TWA [2]	200 ppm
<b>Acetone (67-64-1)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA [ppm]	250 ppm
ACGIH OEL STEL [ppm]	500 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>USA - ACGIH - Biological Exposure Indices</b>	
BEI	25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift (nonspecific)
<b>USA - OSHA - Occupational Exposure Limits</b>	
OSHA PEL TWA [1]	2400 mg/m <sup>3</sup>
OSHA PEL TWA [2]	1000 ppm
<b>Toluene (108-88-3)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Toluene
ACGIH OEL TWA [ppm]	20 ppm
Remark (ACGIH)	TLV® Basis: Visual impair; female repro; pregnancy loss. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2020
<b>USA - ACGIH - Biological Exposure Indices</b>	
BEI	0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: prior to last shift of workweek 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 0.3 mg/g creatinine Parameter: o-Cresol with hydrolysis - Medium: urine - Sampling time: end of shift (background)
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Toluene
OSHA PEL TWA [2]	200 ppm
OSHA PEL C [ppm]	300 ppm



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Toluene (108-88-3)	
Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	500 ppm Peak (10 minutes)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-2
Ethyl alcohol (64-17-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL STEL [ppm]	1000 ppm
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	1900 mg/m <sup>3</sup>
OSHA PEL TWA [2]	1000 ppm

### 8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
Environmental exposure controls	: Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

<b>Hand protection:</b>
Wear suitable gloves. Consult glove manufacturer's product information on material suitability and material thickness.
<b>Eye protection:</b>
Wear eye/face protection
<b>Skin and body protection:</b>
Wear suitable protective clothing
<b>Respiratory protection:</b>
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Colour	: White
Odour	: Characteristic
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: Slower than (n-Butyl acetate)

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Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 55.8 – 56.6 °C (132.4-133.9 °F)
Flash point	: -19 °C (-2.2 °F)
Auto-ignition temperature	: 420 °C (788 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapour.
Vapour pressure	: 233 hPa (174.8 mm Hg) 20°C / 68°F
Relative vapour density at 20°C	: Heavier than (Air)
Relative density	: No data available
Density	: 1.247 g/cm <sup>3</sup> (20°C / 68°F)
Solubility	: Not miscible or difficult to mix.
Partition coefficient n-octanol/water	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Product is not explosive.
Explosive limits	: Lower explosion limit: 1.8 vol % Upper explosion limit: 13 vol %

### Methyl ethyl ketone (78-93-3)

Boiling point	79.6 °C
Flash point	-9 °C
Auto-ignition temperature	404 °C
Vapour pressure	101 hPa (at 20 °C)

### Acetone (67-64-1)

Boiling point	56.05 °C (at 1013.25 hPa)
Flash point	-20 °C
Auto-ignition temperature	465 °C
Vapour pressure	233 hPa (at 20 °C)

### Toluene (108-88-3)

Boiling point	110.6 °C Atm. press.: 1013 hPa Decomposition: 'no'
Flash point	4.4 °C Atm. press.: 1013 hPa
Auto-ignition temperature	480 °C
Vapour pressure	29.3 hPa Temp.: 20 °C

### Propylene glycol monomethyl ether acetate (108-65-6)

Boiling point	145.8 °C Atm. press.: 760 mm Hg Decomposition: 'no'
Flash point	44.4 °C (open cup)
Auto-ignition temperature	315 °C
Vapour pressure	4.9 hPa (at 20 °C)

### Ethyl alcohol (64-17-5)

Boiling point	78.29001 °C Atm. press.: 1013,25 hPa Decomposition: 'no'
Flash point	13 °C Atm. press.: 1 atm

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according to the Hazardous Products Regulation (February 11, 2015)

Ethyl alcohol (64-17-5)	
Auto-ignition temperature	363 °C
Vapour pressure	57.3 hPa (at 20 °C)

### 9.2. Other information

VOC content : ≥ 315.8 g/l

## SECTION 10: Stability and reactivity

Reactivity	: No dangerous reactions known under normal conditions of use.
Chemical stability	: Stable under normal conditions. May form flammable/explosive vapour-air mixture.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Heat. Sources of ignition. Direct sunlight. Incompatible materials.
Incompatible materials	: Strong oxidizers
Hazardous decomposition products	: May include, and are not limited to: oxides of carbon. May release flammable gases.
Hardening time:	: No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

Methyl ethyl ketone (78-93-3)	
LD50 oral rat	2483 mg/kg
LD50 dermal rabbit	5000 mg/kg
LC50 inhalation rat	11700 ppm/4h
LC50 Inhalation - Rat (Vapours)	34.5 mg/l/4h
ATE CA (oral)	2483 mg/kg bodyweight
ATE CA (Dermal)	5000 mg/kg bodyweight
ATE CA (Gases)	11700 ppmv/4h
ATE CA (vapours)	34.5 mg/l/4h

Acetone (67-64-1)	
LD50 oral rat	5800 mg/kg
LD50 dermal rabbit	> 15700 mg/kg
LC50 inhalation rat	50100 mg/m <sup>3</sup> (Exposure time: 8 h)
ATE CA (oral)	5800 mg/kg bodyweight
ATE CA (vapours)	50.1 mg/l/4h
ATE CA (dust,mist)	50.1 mg/l/4h

Toluene (108-88-3)	
LD50 oral rat	2600 mg/kg
LD50 oral	5000 mg/kg

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<b>Toluene (108-88-3)</b>	
LD50 dermal rabbit	12000 mg/kg
LC50 inhalation rat	12.5 mg/l/4h
ATE CA (oral)	2600 mg/kg bodyweight
ATE CA (Dermal)	12000 mg/kg bodyweight
ATE CA (vapours)	12.5 mg/l/4h
ATE CA (dust,mist)	12.5 mg/l/4h

<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>	
LD50 oral rat	8532 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 5 g/kg
ATE CA (oral)	8532 mg/kg bodyweight

<b>Ethyl alcohol (64-17-5)</b>	
LD50 oral rat	15010 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 14450 - 15560
LD50 oral	8300 mg/kg bodyweight Animal: mouse
LC50 inhalation rat	133.8 mg/l/4h
ATE CA (oral)	8300 mg/kg bodyweight
ATE CA (vapours)	133.8 mg/l/4h
ATE CA (dust,mist)	133.8 mg/l/4h

Skin corrosion/irritation : Not classified.  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitization : Not classified.  
Germ cell mutagenicity : Not classified.  
Carcinogenicity : Not classified.

<b>Toluene (108-88-3)</b>	
IARC group	3 - Not classifiable
Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: May cause drowsiness or dizziness.

<b>Methyl ethyl ketone (78-93-3)</b>	
STOT-single exposure	May cause drowsiness or dizziness.

<b>Acetone (67-64-1)</b>	
STOT-single exposure	May cause drowsiness or dizziness.

<b>Toluene (108-88-3)</b>	
STOT-single exposure	May cause drowsiness or dizziness.

<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

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Toluene (108-88-3)	
LOAEL (oral, rat, 90 days)	1250 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	625 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Propylene glycol monomethyl ether acetate (108-65-6)	
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

Ethyl alcohol (64-17-5)	
LOAEL (oral, rat, 90 days)	3200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	1730 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other:
NOAEL (subchronic, oral, animal/male, 90 days)	< 9700 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
NOAEL (subchronic, oral, animal/female, 90 days)	> 9400 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)

Aspiration hazard : Not classified.

Methyl ethyl ketone (78-93-3)	
Animal studies and expert judgment for classification	False

Acetone (67-64-1)	
Animal studies and expert judgment for classification	False

Toluene (108-88-3)	
Viscosity, kinematic	0.643 mm <sup>2</sup> /s
Animal studies and expert judgment for classification	False

Propylene glycol monomethyl ether acetate (108-65-6)	
Animal studies and expert judgment for classification	False

Ethyl alcohol (64-17-5)	
Viscosity, kinematic	1.492 mm <sup>2</sup> /s
Animal studies and expert judgment for classification	False

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.

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Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Hazardous to the aquatic environment, short-term : Not classified.

(acute)

Hazardous to the aquatic environment, long-term : Not classified.

(chronic)

<b>Methyl ethyl ketone (78-93-3)</b>	
LC50 - Fish [1]	3130 – 3320 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	> 520 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	5091 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	1972 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	2029 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC chronic algae	93 mg/l
<b>Acetone (67-64-1)</b>	
LC50 - Fish [1]	4.74 – 6.33 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
LC50 - Fish [2]	6210 – 8120 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	10294 – 17704 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	12600 – 12700 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LOEC (chronic)	> 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>Toluene (108-88-3)</b>	
LC50 - Fish [1]	5.5 mg/l Test organisms (species): Oncorhynchus kisutch
LC50 - Fish [2]	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	5.46 – 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	12.5 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	> 433 mg/l (Species: Pseudokirchneriella subcapitata)
NOEC chronic fish	1.39 mg/l Test organisms (species): Oncorhynchus kisutch Duration: '40 d'
NOEC (chronic)	0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC chronic crustacea	0.74 mg/l
LOEC (chronic)	2.76 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>	
LC50 - Fish [1]	161 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	> 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)

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<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>	
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC chronic fish	47.5 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'
NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>Ethyl alcohol (64-17-5)</b>	
LC50 - Fish [1]	14.2 g/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	9268 – 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
ErC50 algae	1000 mg/l
EC50 96h - Algae [1]	≈ 22000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d'
NOEC chronic crustacea	9.6 mg/l

### 12.2. Persistence and degradability

<b>Seamfil</b>	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

<b>Seamfil</b>	
Bioaccumulative potential	Not established.

<b>Methyl ethyl ketone (78-93-3)</b>	
Partition coefficient n-octanol/water	0.3 (at 40 °C (at pH 7))

<b>Acetone (67-64-1)</b>	
BCF - Fish [1]	(0.69 dimensionless)
Partition coefficient n-octanol/water	-0.24

<b>Toluene (108-88-3)</b>	
Partition coefficient n-octanol/water	2.73 (at 20 °C (at pH 7))

<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>	
Partition coefficient n-octanol/water	1.2 (at 20 °C (at pH 6.8))

<b>Ethyl alcohol (64-17-5)</b>	
Partition coefficient n-octanol/water	-0.35 (at 24 °C (at pH 7.4))

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone : Not classified.

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Other information : No other effects known.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Handle empty containers with care because residual vapours are flammable.

### SECTION 14: Transport information

In accordance with TDG

#### 14.1. UN number

UN-No. (TDG) : UN1263

#### 14.2. UN proper shipping name

Proper Shipping Name (TDG) : PAINT

#### 14.3. Transport hazard class(es)

##### TDG

Transport hazard class(es) (TDG) : 3

Hazard labels (TDG) : 3



#### 14.4. Packing group

Packing group (TDG) : II

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

##### TDG

UN-No. (TDG) : UN1263



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according to the Hazardous Products Regulation (February 11, 2015)

TDG Special Provisions	: 59 - Substances that are listed by name in Schedule 1 must not be transported under this shipping name. Substances transported under this shipping name may contain not more than 20% nitrocellulose if the nitrocellulose contains not more than 12.6% nitrogen (by dry mass), 142 - The following shipping names may be used to meet the requirements of Part 3 (Documentation) and Part 4 (Dangerous Goods Safety Marks) when these dangerous goods are offered for transport in the same means of containment: (a) "PAINT RELATED MATERIAL" may be used for a means of containment containing both paint and paint related material; (b) "PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE" may be used for a means of containment containing both paint, corrosive, flammable, and paint related material, corrosive, flammable; (c) "PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE" may be used for a means of containment containing both paint, flammable, corrosive, and paint related material, flammable, corrosive; and (d) "PRINTING INK RELATED MATERIAL" may be used for a means of containment containing both printing ink and printing ink related material.
Explosive Limit and Limited Quantity Index	: 5 L
Excepted quantities (TDG)	: E2
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5 L

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. National regulations

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

### 15.2. International regulations

No additional information available

## SECTION 16: Other information

Issue date	: 07-19-2023
Revision date	: 07-19-2023
Other information	: None.
Prepared by	: Nexreg Compliance Inc. <a href="http://www.Nexreg.com">www.Nexreg.com</a>



Safety Data Sheet (SDS), Canada - Nexreg 2022

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# SAFETY DATA SHEET



## Corian® Joint Adhesive Component A

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This SDS adheres to the standards and regulatory requirements of Australia and may not meet the regulatory requirements in other countries.

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product name** : Corian® Joint Adhesive Component A

**Recommended use of the chemical and restriction on use**

Recommended use : Adhesives and/or sealants  
For professional users only.

Restrictions on use : Do not use product for anything outside of the above specified uses.

**Manufacturer, importer, supplier, representative office**

Company : Du Pont (Australia) Pty Ltd  
Street address : 15 Blackman Crescent  
South Windsor NSW 2756  
Australia

Telephone : (02) 9923 6111  
Telefax : Not available

**Emergency telephone number** : (02) 9037 2994 (Transport Emergency); (24 hr Emergency Medical Information: 1800 674 415)

### 2. HAZARDS IDENTIFICATION

**Product hazard classification**

Flammable solids : Category 1  
Skin corrosion/irritation : Category 2  
Serious eye damage/eye irritation : Category 2A  
Skin sensitisation : Category 1  
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)  
Short-term (acute) aquatic hazard : Category 3  
Long-term (chronic) aquatic hazard : Category 3

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

**Label content**

Pictogram :



Signal word : Danger

Hazardous warnings : Flammable solid.

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Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause respiratory irritation.  
Harmful to aquatic life with long lasting effects.

### Precautionary statements

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Ground and bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting equipment.  
Avoid breathing dust.  
Wash skin thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
IF ON SKIN: Wash with plenty of water.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If skin irritation or rash occurs: Get medical advice/ attention.  
If eye irritation persists: Get medical advice/ attention.  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of contents/ container to an approved waste disposal plant.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : Mixture

### Components

Chemical name	CAS-No.	Concentration
Methyl methacrylate	80-62-6	60 - 70%
Polymethyl methacrylate	9011-14-7	20 - 30%
Propylidynetrimethyl trimethacrylate	3290-92-4	1 - 3%
Methacrylic acid	79-41-4	1 - 3%
2-(2H-Benzotriazol-2-yl)-p-cresol	2440-22-4	1 - 3%
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	52829-07-9	0.3 - 1%

## 4. FIRST AID MEASURES

**Inhalation** : Remove from exposure, lie down. Consult a physician after significant exposure.  
**Skin contact** : Wash off immediately with soap and plenty of water.

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<b>Eye contact</b>	:	In case of eye contact Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Ingestion</b>	:	If symptoms persist, call a physician.
<b>Most important symptoms/effects, acute and delayed</b>	:	For further information see Section 11.
<b>Protection of first-aiders</b>	:	If potential for exposure exists refer to Section 8 for specific personal protective equipment.
<b>Notes to physician</b>	:	No specific intervention is indicated. Treat symptomatically.

### 5. FIREFIGHTING MEASURES

<b>Suitable extinguishing media</b>	:	Alcohol-resistant foam, Water spray, Dry chemical, Carbon dioxide (CO <sub>2</sub> )
<b>Unsuitable extinguishing media</b>	:	High volume water jet
<b>Specific hazards</b>	:	Hazardous combustion products Carbon monoxide, carbon dioxide
<b>Special protective equipment for firefighters</b>	:	Wear self-contained breathing apparatus and protective suit.
<b>Specific extinguishing methods</b>	:	No information available.
<b>Further information</b>	:	Evacuate personnel and keep upwind of fire. Do not allow run-off from fire fighting to enter drains or water courses.
<b>Hazchem Code</b>	:	1Z

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	:	Wear personal protective equipment.
<b>Environmental precautions</b>	:	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.
<b>Methods and materials for containment and cleaning up</b>	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Ensure adequate ventilation.

### 7. HANDLING AND STORAGE

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### Handling

Technical measures/Precautions : Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Avoid contact with skin and eyes. Use only in well-ventilated areas. Wash hands before breaks and at the end of workday. Keep away from food and drink. Wash contaminated clothing before re-use.

Precautions for safe handling : Keep product and empty container away from heat and sources of ignition. When using do not smoke.

### Storage

Suitable storage conditions : Keep containers tightly closed in a cool, well-ventilated place.

Storage period: Storage temperature: 5 - 23 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Applicable occupational exposure limits are listed below.

Methyl methacrylate		
TWA	50 ppm 208 mg/m <sup>3</sup>	AU OEL (2013-04-18)
STEL	100 ppm 416 mg/m <sup>3</sup>	AU OEL (2013-04-18)
TWA	50 ppm	ACGIH (2016-03-01)
STEL	100 ppm	ACGIH (2016-03-01)
Methacrylic acid		
TWA	20 ppm 70 mg/m <sup>3</sup>	AU OEL (2012-05-04)
TWA	20 ppm	ACGIH (2013-03-01)

### Biological occupational exposure limits

No biological exposure limit values are applicable.

Engineering measures : Use sufficient ventilation to keep employee exposure below recommended limits.

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment. Mask with gas filter, type A (EN 141)

Hand protection : Material: Rubber gloves

Eye protection : Safety glasses

Skin protection : No information available.

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**Hygiene measures** : Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs. Remove and wash contaminated clothing before re-use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance (Physical state, form, colour, etc.)

Physical state : solid  
Form : solid  
Colour : various, coloured

**Odour** : pungent acrylic-like

**Odour Threshold** : not determined

**pH** : Not applicable

#### Melting point/freezing point

Melting point/range : not determined

#### Initial boiling point and boiling range

Boiling point/boiling range : 101 °C

**Flash point** : 9 °C

**Evaporation rate** : No information available.

**Flammability** : The substance or mixture is a flammable solid with the category 1.

#### Upper/lower flammability or explosive limits

Upper explosion limit : 12.5 vol%  
Lower explosion limit : 2.1 vol%

**Vapour pressure** : 47 hPa (20 °C)

**Vapour density** : No information available.

#### Density

Density : 1 g/cm<sup>3</sup> (20 °C)

#### Solubility(ies)

Water solubility : immiscible

#### Particle characteristics

Assessment : No information available.

**Partition coefficient: n-octanol/water** : No information available.

#### Auto-ignition temperature

Auto-ignition temperature : not auto-flammable

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Ignition temperature	: 430 °C
<b>Decomposition temperature</b>	: No information available.
<b>Viscosity</b>	
Viscosity, kinematic	: No information available.
<b>Molecular weight</b>	: No information available.
<b>Oxidizing properties</b>	: No information available.

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	: Stable under recommended storage conditions.
<b>Chemical stability</b>	: No decomposition if stored and applied as directed.
<b>Possibility of hazardous reactions</b>	: No information available.
<b>Conditions to avoid</b>	: Heat Exposure to sunlight.
<b>Materials to avoid</b>	: Reducing agents, Oxidizing agents
<b>Hazardous decomposition products</b>	: Hazardous decomposition products, Carbon dioxide (CO <sub>2</sub> ), Carbon monoxide, Carbon oxides, Smoke, acrid fumes, Acrylic monomers

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Oral

Methyl methacrylate	: LD50/Rabbit: 6,550 mg/kg
Polymethyl methacrylate	: LD50/Rabbit: 6,550 mg/kg
	The substance or mixture has no acute oral toxicity Information given is based on data obtained from similar substances.
Propylidynetrimethyl trimethacrylate	: LD50/Rat: > 2,000 mg/kg Method: OECD Test Guideline 423
	The substance or mixture has no acute oral toxicity
Methacrylic acid	: LD50/Rat: 1,320 mg/kg Method: OECD Test Guideline 401
2-(2H-Benzotriazol-2-yl)-p-cresol	: LD50/Rat: 10,000 mg/kg Method: OECD Test Guideline 423
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	: LD50/Rat: 3,700 mg/kg Method: OECD Test Guideline 423

##### Inhalation

Methyl methacrylate	: LC50/4 h/Rat(vapour): 29.8 mg/l Target Organs: Respiratory system The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
Polymethyl methacrylate	: LC50/4 h/Rat(vapour): 29.8 mg/l The substance or mixture has no acute inhalation toxicity Information given is based on data obtained from similar substances.

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Propylidynetrimethyl trimethacrylate	:	no data available
Methacrylic acid	:	LC50/4 h/Rat(dust/mist): 3.4 mg/l Method: OECD Test Guideline 403 Target Organs: Respiratory system The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation, eye effects, Respiratory effects, Central nervous system effects
2-(2H-Benzotriazol-2-yl)-p-cresol	:	LC50/4 h/Rat(dust/mist): 163 mg/l
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	:	no data available
<b>Dermal</b>		
Methyl methacrylate	:	LD50/Rabbit: > 5,000 mg/kg The substance or mixture has no acute dermal toxicity
Polymethyl methacrylate	:	LD50/Rabbit: > 5,000 mg/kg The substance or mixture has no acute dermal toxicity Information given is based on data obtained from similar substances.
Propylidynetrimethyl trimethacrylate	:	LD50/Rat: > 2,000 mg/kg Method: OECD Test Guideline 402 The substance or mixture has no acute dermal toxicity
Methacrylic acid	:	Acute toxicity estimate/Rabbit: 300 mg/kg Method: Expert judgement
2-(2H-Benzotriazol-2-yl)-p-cresol	:	LD50/Rat: > 2,000 mg/kg The substance or mixture has no acute dermal toxicity
<b>Skin corrosion/irritation</b>		
Methyl methacrylate	:	Species: Rabbit Result: Severe skin irritation Classification: Irritating to skin.
Polymethyl methacrylate	:	Species: Rabbit Result: Slight or no skin irritation Classification: No skin irritation Minimal effects that do not meet the threshold for classification.
Propylidynetrimethyl trimethacrylate	:	Species: Rabbit Result: Slight or no skin irritation Classification: No skin irritation Method: OECD Test Guideline 404 Minimal effects that do not meet the threshold for classification.
Methacrylic acid	:	Species: Rabbit Result: Corrosive after 3 minutes or less of exposure Classification: Causes severe burns. Method: OECD Test Guideline 404
2-(2H-Benzotriazol-2-yl)-p-cresol	:	Species: Rat Result: No skin irritation Classification: Not classified as irritant
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	:	Species: Rabbit Result: No skin irritation Classification: Not classified as irritant Method: US EPA Test Guideline OPP 81-5
<b>Serious eye damage/eye irritation</b>		
Methyl methacrylate	:	Species: Rabbit Result: No eye irritation



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Polymethyl methacrylate	:	Classification: Not classified as irritant Species: Rabbit Result: Slight or no eye irritation Classification: No eye irritation Minimal effects that do not meet the threshold for classification.
Propylidynetrimethyl trimethacrylate	:	Species: Rabbit Result: Slight or no eye irritation Classification: No eye irritation Method: OECD Test Guideline 405 Minimal effects that do not meet the threshold for classification.
Methacrylic acid	:	Species: Rabbit Result: Corrosive Classification: Corrosive
2-(2H-Benzotriazol-2-yl)-p-cresol	:	Species: Rabbit Result: No eye irritation Classification: Not classified as irritant Method: OECD Test Guideline 405
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	:	Species: Rabbit Result: Irreversible effects on the eye Classification: Risk of serious damage to eyes. Method: OECD Test Guideline 405
<b>Respiratory or skin sensitisation</b>		
Methyl methacrylate	:	Species: Guinea pig Result: May cause sensitisation by skin contact. Classification: May cause sensitisation by skin contact. Method: OECD Test Guideline 429
Polymethyl methacrylate	:	Species: human Result: Does not cause respiratory sensitisation. Classification: Does not cause respiratory sensitisation.
Propylidynetrimethyl trimethacrylate	:	Species: Guinea pig Result: Does not cause skin sensitisation. Classification: Does not cause skin sensitisation. Method: Maximisation Test
Methacrylic acid	:	Species: Guinea pig Result: Does not cause skin sensitisation. Classification: Does not cause skin sensitisation. Method: OECD Test Guideline 406
2-(2H-Benzotriazol-2-yl)-p-cresol	:	Species: Not tested on animals Result: Does not cause respiratory sensitisation. Classification: Does not cause respiratory sensitisation.
2-(2H-Benzotriazol-2-yl)-p-cresol	:	Species: Guinea pig Result: Probability or evidence of low to moderate skin sensitisation rate in humans Classification: The product is a skin sensitizer, sub-category 1B. Method: OECD Test Guideline 406
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	:	Maximisation Test Species: Guinea pig

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Result: Does not cause skin sensitisation.  
Classification: Does not cause skin sensitisation.  
Method: OECD Test Guideline 406

### Germ cell mutagenicity

- Methyl methacrylate : Animal testing did not show any mutagenic effects.
- Polymethyl methacrylate : Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells. Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others. Information given is based on data obtained from similar substances.
- Propylidynetrimethyl trimethacrylate : Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells. Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.
- Methacrylic acid : Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured mammalian cells. Genetic damage in cultured bacterial cells was observed in some laboratory tests but not in others.
- 2-(2H-Benzotriazol-2-yl)-p-cresol : Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells.
- Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.

### Carcinogenicity

- Methyl methacrylate : Not classifiable as a human carcinogen.  
Animal testing did not show any carcinogenic effects.
- Polymethyl methacrylate : Weight of evidence does not support classification as a carcinogen  
Animal testing did not show any carcinogenic effects.  
Information given is based on data obtained from similar substances.
- Propylidynetrimethyl trimethacrylate : Not classifiable as a human carcinogen.  
Animal testing did not show any carcinogenic effects.
- Methacrylic acid : Not classifiable as a human carcinogen.  
Animal testing did not show any carcinogenic effects.
- 2-(2H-Benzotriazol-2-yl)-p-cresol : Not classifiable as a human carcinogen.  
Animal testing did not show any carcinogenic effects.
- Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : no data available

### Reproductive toxicity

- Methyl methacrylate : Reproductive toxicity: No toxicity to reproduction  
No effects on or via lactation  
Animal testing showed no reproductive toxicity.  
Teratogenicity: Animal testing showed no developmental toxicity.
- Polymethyl methacrylate : Reproductive toxicity: No toxicity to reproduction  
Animal testing showed no reproductive toxicity.  
No effects on or via lactation  
Information given is based on data obtained from similar substances.  
Teratogenicity: Animal testing showed no developmental toxicity.  
Information given is based on data obtained from similar substances.

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- Propylidynetrimethyl trimethacrylate : Reproductive toxicity: No toxicity to reproduction  
Animal testing showed no reproductive toxicity.  
Teratogenicity: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
- Methacrylic acid : Reproductive toxicity: No toxicity to reproduction  
Animal testing showed no reproductive toxicity.  
Teratogenicity: Animal testing showed no developmental toxicity.
- 2-(2H-Benzotriazol-2-yl)-p-cresol : Reproductive toxicity: No toxicity to reproduction  
Animal testing showed no reproductive toxicity.  
Teratogenicity: Animal testing showed no developmental toxicity.
- Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : Reproductive toxicity: No toxicity to reproduction  
Teratogenicity: No toxicity to reproduction

### Specific Target Organ Toxicity

#### Specific target organ toxicity - single exposure

- Methyl methacrylate : Target Organs: Respiratory system  
The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
- Polymethyl methacrylate : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- Propylidynetrimethyl trimethacrylate : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- Methacrylic acid : Target Organs: Respiratory system  
The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
- 2-(2H-Benzotriazol-2-yl)-p-cresol : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### Specific target organ toxicity - repeated exposure

- Methyl methacrylate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Polymethyl methacrylate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Propylidynetrimethyl trimethacrylate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Methacrylic acid : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- 2-(2H-Benzotriazol-2-yl)-p-cresol : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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### Aspiration hazard

- Polymethyl methacrylate : No aspiration toxicity classification
- Propylidynetrimethyl trimethacrylate : No aspiration toxicity classification
- Methacrylic acid : No aspiration toxicity classification
- 2-(2H-Benzotriazol-2-yl)-p-cresol : No aspiration toxicity classification
- Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : No aspiration toxicity classification

### Other

- Methyl methacrylate : Repeated dose toxicity:  
Oral/Rat  
NOAEL: > 3300,  
No toxicologically significant effects were found.
  
- Polymethyl methacrylate : Repeated dose toxicity:  
Oral/Rat 2 yr  
No observed adverse effect level: 124 mg/kg  
Information given is based on data obtained from similar substances., No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.  
Inhalation/Rat  
No observed adverse effect level: 1.64 mg/l  
Method: OECD Test Guideline 453  
Information given is based on data obtained from similar substances., No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.
  
- Propylidynetrimethyl trimethacrylate : Repeated dose toxicity:  
Ingestion/Rat 90 d  
NOAEL: 300 mg/kg  
LOAEL: 1,000 mg/kg  
Method: OECD Test Guideline 408  
No toxicologically significant effects were found.
  
- Methacrylic acid : Repeated dose toxicity:  
Inhalation/Rat  
NOAEL: 0.352 mg/l  
Method: OECD Test Guideline 413  
No toxicologically significant effects were found.
  
- 2-(2H-Benzotriazol-2-yl)-p-cresol : Repeated dose toxicity:  
Oral/Rat  
NOAEL: 500 mg/kg  
Method: OECD Test Guideline 408  
Organ weight changes
  
- Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : Repeated dose toxicity:  
Ingestion/Rat 90 d  
NOAEL: > 277 mg/kg  
Method: OECD Test Guideline 408  
No toxicologically significant effects were found.

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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity effects

Acute and prolonged toxicity to fish

Methyl methacrylate : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 79 mg/l  
Polymethyl methacrylate : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 79 mg/l  
Method: EPA OTS 797.1400

Information given is based on data obtained from similar substances.

Propylidynetrimethyl trimethacrylate : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 2 mg/l  
Method: OECD Test Guideline 203  
Methacrylic acid : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 85 mg/l  
2-(2H-Benzotriazol-2-yl)-p-cresol : LC50/96 h/Fish: > 100 mg/l  
Method: OECD Test Guideline 203

Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : LC50/96 h/Lepomis macrochirus (Bluegill sunfish): 4.4 mg/l  
Method: OECD Test Guideline 203

Toxicity to aquatic plants

Methyl methacrylate : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 110 mg/l  
Method: OECD Test Guideline 201  
NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 110 mg/l  
Method: OECD Test Guideline 201

Polymethyl methacrylate : EC50/72 h/Pseudokirchneriella subcapitata (green algae): > 110 mg/l  
Method: OECD Test Guideline 201  
Information given is based on data obtained from similar substances.  
NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 110 mg/l  
Method: OECD Test Guideline 201

Information given is based on data obtained from similar substances.  
Propylidynetrimethyl trimethacrylate : EC50/72 h/Pseudokirchneriella subcapitata (green algae): 3.88 mg/l  
Method: OECD Test Guideline 201  
NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 0.177 mg/l  
Method: OECD Test Guideline 201

Methacrylic acid : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 45 mg/l  
NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 8.2 mg/l

2-(2H-Benzotriazol-2-yl)-p-cresol : ErC50/72 h/Desmodesmus subspicatus (green algae): > 100 mg/l  
Method: Directive 67/548/EEC, Annex V, C.3.

NOEC/72 h/Desmodesmus subspicatus (green algae): 33 mg/l  
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 1.1 mg/l  
Method: OECD Test Guideline 201  
NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 0.05 mg/l  
Method: OECD Test Guideline 201

Acute toxicity to aquatic invertebrates

Methyl methacrylate : EC50/48 h/Daphnia magna (Water flea): 69 mg/l  
Method: see user defined free text

Polymethyl methacrylate : LC50/48 h/Daphnia magna (Water flea): 69 mg/l  
Method: EPA OTS 797.1300

Information given is based on data obtained from similar substances.

Propylidynetrimethyl trimethacrylate : LC50/48 h/Daphnia magna (Water flea): > 9.22 mg/l  
Method: OECD Test Guideline 202

Methacrylic acid : EC50/48 h/Daphnia magna (Water flea): > 130 mg/l

Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate : EC50/48 h/Daphnia magna (Water flea): 8.58 mg/l

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Piperidyl) Sebacate	Method: OECD Test Guideline 202
Chronic toxicity to fish	
Methyl methacrylate	: NOEC/35 d/Danio rerio (zebra fish): 9.4 mg/l Method: OECD Test Guideline 210
Polymethyl methacrylate	: NOEC/35 d/Danio rerio (zebra fish): 9.4 mg/l Method: OECD Test Guideline 210 Information given is based on data obtained from similar substances.
Propylidynetrimethyl trimethacrylate	: NOEC/32 d/Pimephales promelas (fathead minnow): 0.138 mg/l Method: OECD Test Guideline 210
Methacrylic acid	: NOEC/35 d/Danio rerio (zebra fish): 10 mg/l
Chronic toxicity to aquatic Invertebrates	
Methyl methacrylate	: NOEC/21 d/Daphnia magna (Water flea): 37 mg/l Method: OECD Test Guideline 211
Polymethyl methacrylate	: NOEC/21 d/Daphnia magna (Water flea): 37 mg/l Method: OECD Test Guideline 211 Information given is based on data obtained from similar substances.
Methacrylic acid	: NOEC/21 d/Daphnia magna (Water flea): 53 mg/l
2-(2H-Benzotriazol-2-yl)-p-cresol	: NOEC/21 d/Daphnia magna (Water flea): 0.013 mg/l Method: OECD Test Guideline 211
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	: NOEC/21 d/Daphnia magna (Water flea): 0.23 mg/l Method: OECD Test Guideline 211
<b>Persistence and degradability</b>	
Methyl methacrylate	: Result: rapidly biodegradable Readily biodegradable.
Polymethyl methacrylate	: Result: Biodegradable Information given is based on data obtained from similar substances.
Propylidynetrimethyl trimethacrylate	: Result: Not biodegradable Not readily biodegradable.
Methacrylic acid	: Result: rapidly biodegradable
2-(2H-Benzotriazol-2-yl)-p-cresol	: Result: Not biodegradable
Bis(2,2,6,6-Tetramethyl-4-Piperidyl) Sebacate	: Exposure time: 28 d Biodegradation: 10 - 24 % Result: Not biodegradable
<b>Bioaccumulation</b>	
Methyl methacrylate	: Bioaccumulation is unlikely.
Polymethyl methacrylate	: Bioaccumulation is unlikely.
Propylidynetrimethyl trimethacrylate	: Bioaccumulation is unlikely.
2-(2H-Benzotriazol-2-yl)-p-cresol	: Method: OECD Test Guideline 305C Bioaccumulation is unlikely.

### Mobility in soil

No information available.

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS



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**Waste disposal methods** : Do not dispose of together with household waste. Do not flush into surface water or sanitary sewer system. In accordance with local and national regulations.

**Contaminated packaging** : Dispose of in accordance with local regulations.

### 14. TRANSPORT INFORMATION

#### ADG

UN number : 1325  
UN proper shipping name : FLAMMABLE SOLID, ORGANIC, N.O.S.  
(Methyl methacrylate)  
Transport hazard class : 4.1  
Packing group : II  
Hazchem Code : 1Z

#### IMDG

UN number : 1325  
UN proper shipping name : FLAMMABLE SOLID, ORGANIC, N.O.S.  
(Methyl methacrylate)  
Transport hazard class : 4.1  
Packing group : II  
Marine pollutant : no

#### IATA

UN number : 1325  
UN proper shipping name : FLAMMABLE SOLID, ORGANIC, N.O.S.  
(Methyl methacrylate)  
Transport hazard class : 4.1  
Packing group : II

Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Not applicable

### 15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons: Schedule 6

### 16. OTHER INFORMATION

#### References

SDS Number: 150000004821

#### Revision Date/Version

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## **Corian<sup>®</sup> Joint Adhesive Component A**

Version 4.0

Revision Date 16.06.2022

Document no. 150000004821

Issue Date 16.06.2022

Date of first preparation : 08.01.2018  
Revision Date : 16.06.2022  
Version : 4.0

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Significant change from previous version is denoted with a double bar.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.



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This SDS adheres to the standards and regulatory requirements of Australia and may not meet the regulatory requirements in other countries.

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product name** : Corian® Joint Adhesive Component B

**Recommended use of the chemical and restriction on use**

Recommended use : Adhesives and/or sealants  
For professional users only.

Restrictions on use : Do not use product for anything outside of the above specified uses.

**Manufacturer, importer, supplier, representative office**

Company : Du Pont (Australia) Pty Ltd  
Street address : 15 Blackman Crescent  
South Windsor NSW 2756  
Australia

Telephone : (02) 9923 6111  
Telefax : Not available

**Emergency telephone number** : (02) 9037 2994 (Transport Emergency); (24 hr Emergency Medical Information: 1800 674 415)

### 2. HAZARDS IDENTIFICATION

**Product hazard classification**

Skin sensitisation : Category 1

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

**Label content**

Pictogram :



Signal word : Warning

Hazardous warnings : May cause an allergic skin reaction.  
Very toxic to aquatic life with long lasting effects.

Precautionary statements : Avoid breathing dust.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves.

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IF ON SKIN: Wash with plenty of water.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash it before reuse.  
Collect spillage.  
Dispose of contents/ container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : Mixture

#### Components

Chemical name	CAS-No.	Concentration
Oxydipropyl dibenzoate	27138-31-4	20 - 30%
Dibenzoyl peroxide	94-36-0	<10%

### 4. FIRST AID MEASURES

- Inhalation** : If breathed in, move person into fresh air. Obtain medical attention. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Wash off immediately with soap and plenty of water.
- Eye contact** : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. In case of eye contact
- Ingestion** : If symptoms persist, call a physician.
- Most important symptoms/effects, acute and delayed** : For further information see Section 11.
- Protection of first-aiders** : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician** : No specific intervention is indicated. Treat symptomatically.

### 5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media** : No information available.
- Specific hazards** : Hazardous combustion products  
Carbon monoxide, carbon dioxide
- Special protective equipment for firefighters** : Wear self-contained breathing apparatus and protective suit.

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- Specific extinguishing methods** : No information available.
- Further information** : Evacuate personnel and keep upwind of fire. Do not allow run-off from fire fighting to enter drains or water courses.
- Hazchem Code** : 2Z

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures** : Ensure adequate ventilation. Remove all sources of ignition.
- Environmental precautions** : Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.
- Methods and materials for containment and cleaning up** : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Ensure adequate ventilation.

### 7. HANDLING AND STORAGE

#### Handling

- Technical measures/Precautions** : Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Avoid contact with skin and eyes. Use only in well-ventilated areas.
- Precautions for safe handling** : Keep product and empty container away from heat and sources of ignition. When using do not smoke.

#### Storage

- Suitable storage conditions** : Keep tightly closed in a dry, cool and well-ventilated place.
- Advice on common storage: No materials to be especially mentioned.
- Storage period: Storage temperature: 5 - 23 °C

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Applicable occupational exposure limits are listed below.

Dibenzoyl peroxide		
TWA	5 mg/m <sup>3</sup>	AU OEL (2013-04-18)

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TWA	5 mg/m <sup>3</sup>	ACGIH (2013-03-01)
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### Biological occupational exposure limits

No biological exposure limit values are applicable.

**Engineering measures** : Use sufficient ventilation to keep employee exposure below recommended limits.

### Personal protective equipment

**Respiratory protection** : No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** : polyvinylalcohol (PVA) gloves, Nitrile rubber gloves.

**Eye protection** : Safety glasses

**Skin protection** : No information available.

**Hygiene measures** : Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs. Wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance (Physical state, form, colour, etc.)

Physical state : solid

Form : solid

Colour : white

**Odour** : odourless

**Odour Threshold** : not determined

**pH** : no data available Substance/mixture is non-soluble (in water).

### Melting point/freezing point

Melting point/range : not determined

### Initial boiling point and boiling range

Boiling point/boiling : 232 °C

range

**Flash point** : 192 °C

**Evaporation rate** : No information available.

**Flammability** : No information available.

### Upper/lower flammability or explosive limits

Upper explosion limit : not determined

Lower explosion limit : not determined

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<b>Vapour pressure</b>	: not determined
<b>Vapour density</b>	: No information available.
<b>Density</b>	
Density	: 1.16 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	
Water solubility	: immiscible
<b>Particle characteristics</b>	
Assessment	: No information available.
<b>Partition coefficient: n-octanol/water</b>	: No information available.
<b>Auto-ignition temperature</b>	
Auto-ignition temperature	: not auto-flammable
Ignition temperature	: 80 °C
<b>Decomposition temperature</b>	: No information available.
<b>Viscosity</b>	
Viscosity, kinematic	: No information available.
<b>Molecular weight</b>	: No information available.
<b>Oxidizing properties</b>	: No information available.

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	: Stable under recommended storage conditions.
<b>Chemical stability</b>	: No decomposition if stored and applied as directed.
<b>Possibility of hazardous reactions</b>	: No information available.
<b>Conditions to avoid</b>	: Heat Exposure to sunlight.
<b>Materials to avoid</b>	: Oxidizing agents, Strong acids and strong bases, alkalies, Reducing agents
<b>Hazardous decomposition products</b>	: Decomposes by reaction with alkaline solutions., Hazardous decomposition products, Carbon dioxide (CO <sub>2</sub> ), Benzene, Benzoic acid, Biphenyls, Smoke

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Oral

Oxydipropyl dibenzoate : LD50/Rat: 3,914 mg/kg

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Dibenzoyl peroxide	:	Method: OECD Test Guideline 401 Central nervous system effects LD50/Rat: > 5,000 mg/kg Method: OECD Test Guideline 401 The substance or mixture has no acute oral toxicity
Inhalation		
Oxydipropyl dibenzoate	:	LC50/4 h/Rat(dust/mist): > 200 mg/l The substance or mixture has no acute inhalation toxicity
Dibenzoyl peroxide	:	LC50/4 h/Rat(dust/mist): > 24.3 mg/l Method: OECD Test Guideline 403 Central nervous system effects, Respiratory effects, eye effects
Dermal		
Oxydipropyl dibenzoate	:	LD50/Rat: > 2,000 mg/kg Method: OECD Test Guideline 402 The substance or mixture has no acute dermal toxicity
Dibenzoyl peroxide	:	no data available
<b>Skin corrosion/irritation</b>		
Oxydipropyl dibenzoate	:	Species: Rabbit Result: No skin irritation Classification: No skin irritation Method: OECD Test Guideline 404
Dibenzoyl peroxide	:	Species: Rabbit Result: No skin irritation Classification: Not classified as irritant Method: OECD Test Guideline 404
<b>Serious eye damage/eye irritation</b>		
Oxydipropyl dibenzoate	:	Species: Rabbit Result: No eye irritation Classification: No eye irritation Method: OECD Test Guideline 405 Minimal effects that do not meet the threshold for classification.
Dibenzoyl peroxide	:	Species: Rabbit Result: Eye irritation Classification: Irritating to eyes. Method: OECD Test Guideline 405
<b>Respiratory or skin sensitisation</b>		
Oxydipropyl dibenzoate	:	Species: Guinea pig Result: Does not cause skin sensitisation. Classification: Does not cause skin sensitisation. Method: OECD Test Guideline 406
Dibenzoyl peroxide	:	Species: Mouse Result: The product is a skin sensitizer, sub-category 1A. Classification: The product is a skin sensitizer, sub-category 1A. Method: OECD Test Guideline 429
<b>Germ cell mutagenicity</b>		
Oxydipropyl dibenzoate	:	In vitro tests did not show mutagenic effects Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Dibenzoyl peroxide	:	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.


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**Carcinogenicity**

Dibenzoyl peroxide : Not classifiable as a human carcinogen.  
Overall weight of evidence indicates that the substance is not carcinogenic.

**Reproductive toxicity**

Oxydipropyl dibenzoate : Reproductive toxicity: No toxicity to reproduction  
Animal testing showed no reproductive toxicity.  
No effects on or via lactation  
Teratogenicity: Animal testing showed no developmental toxicity.

Dibenzoyl peroxide : Reproductive toxicity: No toxicity to reproduction  
Evidence suggests the substance is not a reproductive toxin in animals.  
Teratogenicity: Evidence suggests the substance is not a developmental toxin in animals.

**Specific Target Organ Toxicity**

Specific target organ toxicity - single exposure

Oxydipropyl dibenzoate : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

Oxydipropyl dibenzoate : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Dibenzoyl peroxide : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration hazard**

Oxydipropyl dibenzoate : No aspiration toxicity classification  
Dibenzoyl peroxide : No aspiration toxicity classification

**Other**

Oxydipropyl dibenzoate : Repeated dose toxicity:  
Ingestion/Rat 90 d  
NOAEL: 1,000 mg/kg  
Method: OECD Test Guideline 408  
No toxicologically significant effects were found.

Dibenzoyl peroxide : Repeated dose toxicity:  
Oral/Rat  
NOAEL: 500 mg/kg  
Method: see user defined free text  
No toxicologically significant effects were found.

**12. ECOLOGICAL INFORMATION**
**Ecotoxicity effects**

Acute and prolonged toxicity to fish

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Oxydipropyl dibenzoate	:	LC50/96 h/Pimephales promelas (fathead minnow): 3.7 mg/l Method: OECD Test Guideline 203
Dibenzoyl peroxide	:	LC50/96 h/Oncorhynchus mykiss (rainbow trout): 0.602 mg/l Method: OECD Test Guideline 203
<b>Toxicity to aquatic plants</b>		
Oxydipropyl dibenzoate	:	EC50/96 h/Pseudokirchneriella subcapitata (green algae): 3.6 mg/l Method: OECD Test Guideline 201
Dibenzoyl peroxide	:	ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 0.0711 mg/l Method: OECD Test Guideline 201 NOEC/72 h/Pseudokirchneriella subcapitata (green algae): 0.02 mg/l Method: OECD Test Guideline 201
<b>Acute toxicity to aquatic invertebrates</b>		
Oxydipropyl dibenzoate	:	EC50/48 h/Daphnia magna (Water flea) Method: OECD Test Guideline 202 Aquatic toxicity is unlikely due to low solubility.
Dibenzoyl peroxide	:	EC50/48 h/Daphnia magna (Water flea): 0.11 mg/l Method: OECD Test Guideline 202
<b>Chronic toxicity to aquatic Invertebrates</b>		
Dibenzoyl peroxide	:	NOEC/21 d/Daphnia magna (Water flea): 0.001 mg/l Method: OECD Test Guideline 211
<b>Persistence and degradability</b>		
Oxydipropyl dibenzoate	:	Result: Biodegradable
Dibenzoyl peroxide	:	Result: Not biodegradable
<b>Bioaccumulation</b>		
Oxydipropyl dibenzoate	:	Bioaccumulation is unlikely.
<b>Mobility in soil</b>		
No information available.		
<b>Other adverse effects</b>		
No information available.		

### 13. DISPOSAL CONSIDERATIONS

<b>Waste disposal methods</b>	:	Do not dispose of together with household waste. Do not flush into surface water or sanitary sewer system. In accordance with local and national regulations.
<b>Contaminated packaging</b>	:	If recycling is not practicable, dispose of in compliance with local regulations.

### 14. TRANSPORT INFORMATION

#### ADG

UN number	:	3077
UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dibenzoyl peroxide)
Transport hazard class	:	9



# SAFETY DATA SHEET



## Corian® Joint Adhesive Component B

Version 4.0

Revision Date 21.06.2022

Document no. 150000004822

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Packing group : III  
Hazchem Code : 2Z

### IMDG

UN number : 3077  
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Dibenzoyl peroxide)  
Transport hazard class : 9  
Packing group : III  
Marine pollutant : yes (Dibenzoyl peroxide)

### IATA

UN number : 3077  
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Dibenzoyl peroxide)  
Transport hazard class : 9  
Packing group : III

Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA special provision A197, and ADR/RID special provision 375.

## 15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons: Schedule 5

## 16. OTHER INFORMATION

### References

SDS Number: 150000004822

### Revision Date/Version

Date of first preparation : 08.01.2018  
Revision Date : 21.06.2022  
Version : 4.0

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Significant change from previous version is denoted with a double bar.

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