

# Permabond®

## Engineering Adhesives

### SAFETY DATA SHEET

#### Permabond MM115 Pure

#### 1. Identification

##### Product identifier

**Product name** Permabond MM115 Pure

##### Recommended use of the chemical and restrictions on use

**Application** Adhesive. Sealant.

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

**Supplier** Permabond LLC  
14 Robinson Street  
Pottstown, PA 19464  
USA  
Telephone: 732-868-1372 or 800-640-7599  
Website: www.permabond.com

##### Emergency telephone number

**Emergency telephone** Medical: Poison Control Center 866-827-6282 (toll free) or 303-389-1109 Transport: CHEMTREC 800-424-9300

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**OSHA Regulatory Status** 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).

**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317

##### Label elements

##### Pictogram



**Signal word** Warning

**Hazard statements** H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

## Permabond MM115 Pure

<b>Precautionary statements</b>	<p>P261 Avoid breathing vapor/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352a IF ON SKIN: Wash with plenty of soap and water.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P501 Dispose of contents/container in accordance with existing Community, National and local regulations.</p>
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**Contains** 2-HYDROXYETHYL METHACRYLATE

### Other hazards

None under normal conditions.

### 3. Composition/information on ingredients

#### Mixtures

<b>2-HYDROXYETHYL METHACRYLATE</b>	<b>10-30%</b>
CAS number: 868-77-9	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Skin Sens. 1 - H317	
<b>CUMENE HYDROPEROXIDE</b>	<b>&lt;1%</b>
CAS number: 80-15-9	
<b>Classification</b>	
Org. Perox. E - H242	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Acute Tox. 3 - H331	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	
STOT RE 2 - H373	
Not relevant.	
<b>METHACRYLIC ACID</b>	<b>&lt;1%</b>
CAS number: 79-41-4	
<b>Classification</b>	
Acute Tox. 4 - H302	
Acute Tox. 3 - H311	
Acute Tox. 4 - H332	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	

## Permabond MM115 Pure

<b>N,N-DIMETHYL-PARA-TOLUIDINE</b>	<b>&lt;1%</b>
CAS number: 99-97-8	
<b>Classification</b> Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT RE 2 - H373 Not relevant.	

The full text for all hazard statements is displayed in Section 16.

**Composition comments**      Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation</b>	Move the exposed person to fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, provide artificial respiration. Get medical attention.
<b>Ingestion</b>	Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Skin Contact</b>	Wash skin thoroughly with soap and water. If symptoms develop, obtain medical attention
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

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

<b>Inhalation</b>	May cause respiratory irritation.
<b>Ingestion</b>	May cause irritation.
<b>Skin contact</b>	Causes skin irritation. May cause an allergic skin reaction.
<b>Eye contact</b>	Causes eye irritation.

#### Indication of immediate medical attention and special treatment needed

**Notes for the doctor**      No specific recommendations. Treat symptomatically.

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media**    Water spray, foam, dry powder or carbon dioxide.

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

**Hazardous combustion products**      Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons.

#### Advice for firefighters

**Special protective equipment for firefighters**    Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 6. Accidental release measures

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

## Permabond MM115 Pure

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### Environmental precautions

**Environmental precautions** Avoid discharge into drains.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely.

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see section 13.

## 7. Handling and storage

### Precautions for safe handling

**Usage precautions** Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Keep container tightly sealed when not in use. Wash hands thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in closed original container at temperatures between 44°F and 77°F. Never return unused material to storage receptacle.

### Specific end uses(s)

**Usage description** Adhesive. Sealant.

## 8. Exposure Controls/personal protection

### Control parameters

### Occupational exposure limits

#### METHACRYLIC ACID

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 70 mg/m<sup>3</sup>

ACGIH = American Conference of Governmental Industrial Hygienists.

### Exposure controls

**Appropriate engineering controls** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**Eye/face protection** Use safety goggles and face shield in case of splash risk.

**Hand protection** Nitrile rubber or Viton™ gloves are recommended. Cotton or other absorbent gloves should not be worn.

**Other skin and body protection** Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance.

**Hygiene measures** Wash at the end of each work shift and before eating, smoking and using the toilet.

**Respiratory protection** Respiratory protection may be required if excessive airborne contamination occurs. Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

**Appearance** Liquid.

**Color** Colorless.

**Odor** Acrylic

**Odor threshold** Not available.

## Permabond MM115 Pure

<b>pH</b>	Not relevant.
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	Not applicable.
<b>Flash point</b>	>93°C (199.94°F)
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	1.0
<b>Bulk density</b>	Not available.
<b>Solubility(ies)</b>	Slightly soluble in water. Miscible with the following materials: acetone
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	≈1500 mPa s @ 23°C
<b>Oxidizing properties</b>	Not available.
<b>Other information</b>	Not relevant.
<b>Volatile organic compound</b>	<2 %, 20 grams/liter (Estimated)

### 10. Stability and reactivity

<b>Reactivity</b>	Not available
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Possibility of hazardous reactions</b>	There are no known reactivity hazards associated with this product. Polymerization may occur at elevated temperature or in the presence of incompatible materials
<b>Conditions to avoid</b>	Avoid the absence of air, and metal contamination.
<b>Materials to avoid</b>	Metals and their salts. Free radical initiators. Strong alkalis. Strong oxidizing agents. Strong reducing agents. Alkalis.
<b>Hazardous decomposition products</b>	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

### 11. Toxicological information

#### Information on toxicological effects

## Permabond MM115 Pure

<b>Toxicological effects</b>	The toxicological properties of this product have not been fully evaluated. Use of good industrial hygiene practices is required. Avoid direct contact with skin or eyes. Do not ingest or inhale.
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Irritating to skin.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes eye irritation.
<b><u>Skin sensitization</u></b>	
<b>Skin sensitization</b>	May cause sensitisation by skin contact.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b>Genotoxicity - in vivo</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	No component of this product present at levels great than or equal to 0.1% is identified as a known carcinogen.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.
<b>Inhalation</b>	In high concentrations, vapors may irritate throat and respiratory system and cause coughing.
<b>Ingestion</b>	May cause irritation.
<b>Skin Contact</b>	Causes skin irritation. May cause allergic skin reaction.
<b>Eye contact</b>	Causes eye irritation.
<b>Acute and chronic health hazards</b>	May cause skin sensitization or allergic reactions in sensitive individuals. Irritating to eyes. Irritating to skin.
<b>Route of exposure</b>	Ingestion Skin and/or eye contact

### Toxicological information on ingredients.

#### CUMENE HYDROPEROXIDE

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 328.0

**Species** Rat

**ATE oral (mg/kg)** 328.0

##### Acute toxicity - dermal

## Permabond MM115 Pure

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 1,200.0

**Species** Rat

**ATE dermal (mg/kg)** 1,200.0

**Acute toxicity - inhalation**

**Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)** 1.37

**Species** Rat

**ATE inhalation (dusts/mists mg/l)** 0.5

**Skin corrosion/irritation**

**Animal data** Highly irritating.

**Serious eye damage/irritation**

**Serious eye damage/irritation** Irritating to eyes.

**Skin sensitization**

**Skin sensitization** Not sensitizing.

**Germ cell mutagenicity**

**Genotoxicity - in vitro** Positive.

**Genotoxicity - in vivo** This substance has no evidence of mutagenic properties.

**Carcinogenicity**

**Carcinogenicity** CMR: No

**Reproductive toxicity**

**Reproductive toxicity - fertility** No specific test data are available.

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: ≥100 mg/kg/day, Oral, Rat

**Specific target organ toxicity - single exposure**

**STOT - single exposure** No specific test data are available.

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure** Toxic: danger of serious damage to health by prolonged exposure through inhalation.

**Aspiration hazard**

**Aspiration hazard** No specific test data are available.

### METHACRYLIC ACID

**Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,320.0

**Species** Rat

## Permabond MM115 Pure

<b>ATE oral (mg/kg)</b>	500.0
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	1,000.0
<b>Species</b>	Rabbit
<b>ATE dermal (mg/kg)</b>	1,000.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	7.1
<b>Species</b>	Rat
<b>ATE inhalation (vapours mg/l)</b>	11.0
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Dose: Method: OECD 404, 3 minutes, Rabbit Corrosive.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Method: OECD 405, Rabbit Corrosive.
<b><u>Respiratory sensitization</u></b>	
<b>Respiratory sensitization</b>	Guinea pig: Not sensitizing. Method: various test systems
<b><u>Skin sensitization</u></b>	
<b>Skin sensitization</b>	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitizing.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	CMR: no
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	No evidence of reproductive toxicity in animal studies.
<b>Reproductive toxicity - development</b>	Non-teratogenic, not embryotoxic
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>Target organs</b>	Respiratory tract Irritating.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>Target organs</b>	No specific target organs known.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Based on available data the classification criteria are not met.

### N,N-DIMETHYL-PARA-TOLUIDINE

#### Acute toxicity - oral

## Permabond MM115 Pure

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 139.0

**Species** Rat

**ATE oral (mg/kg)** 139.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rabbit

**ATE dermal (mg/kg)** 300.0

**Acute toxicity - inhalation**

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 3.19

**ATE inhalation (vapours mg/l)** 3.19

**Skin corrosion/irritation**

**Animal data** Method: OECD 404, Rabbit Moderately irritating.

**Serious eye damage/irritation**

**Serious eye damage/irritation** Method: OECD 405, Rabbit Moderately irritating.

**Skin sensitization**

**Skin sensitization** Not sensitizing.

**Germ cell mutagenicity**

**Genotoxicity - in vitro** Ames test This substance has no evidence of mutagenic properties.

**Carcinogenicity**

**Carcinogenicity** No information available.

**Reproductive toxicity**

**Reproductive toxicity - fertility** Two-generation study - LOEL 72.977 mg/kg/day, , Rat F2

**Specific target organ toxicity - single exposure**

**STOT - single exposure** No information available.

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

**Aspiration hazard** Not available.

### 12. Ecological Information

**Toxicity** No data available.

**Ecological information on ingredients.**

**2-HYDROXYETHYL METHACRYLATE**

## Permabond MM115 Pure

### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: > 100 mg/l, <i>Oryzias latipes</i> (Red killifish)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 380 mg/l, <i>Daphnia magna</i>
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 836 mg/l, <i>Selenastrum capricornutum</i> NOEC, 72 hours: 400 mg/l, <i>Selenastrum capricornutum</i>
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 16 hours: > 3000 mg/l, <i>Pseudomonas fluorescens</i>

### Chronic aquatic toxicity

<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days: 24.1 mg/l, <i>Daphnia magna</i>
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## CUMENE HYDROPEROXIDE

### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hour: 3.9 mg/l, <i>Oncorhynchus mykiss</i> (Rainbow trout)
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## METHACRYLIC ACID

### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 85 mg/l, <i>Oncorhynchus mykiss</i> (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: > 130 mg/l, <i>Daphnia magna</i>
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 45 mg/l, <i>Selenastrum capricornutum</i> LOEC, 72 hours: 45 mg/l, <i>Selenastrum capricornutum</i>
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 17 hours: 270 mg/l, <i>Pseudomonas putida</i>

### Chronic aquatic toxicity

<b>Chronic toxicity - fish early life stage</b>	NOEC, 35 days: 10 mg/l, <i>Danio rerio</i> (Zebrafish)
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days: 53 mg/l, <i>Daphnia magna</i>

## N,N-DIMETHYL-PARA-TOLUIDINE

### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 46 mg/l, <i>Pimephales promelas</i> (Fat-head Minnow)
<b>Acute toxicity - aquatic invertebrates</b>	LC <sub>50</sub> , 48 hours: 15.259 mg/l, <i>Daphnia magna</i>
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 24.37 mg/l, <i>Pseudokirchneriella subcapitata</i>
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 24 hours: 161.206 mg/l, <i>Tetrahymena pyriformis</i>

### Chronic aquatic toxicity

## Permabond MM115 Pure

**Chronic toxicity - fish early life stage** LC<sub>50</sub>, 14 days: 24.892 mg/l, Fish

### Persistence and degradability

#### Ecological information on ingredients.

#### 2-HYDROXYETHYL METHACRYLATE

**Biodegradation** Water - Degradation 84%: 28 days

#### CUMENE HYDROPEROXIDE

**Biodegradation** The substance is readily biodegradable.

#### METHACRYLIC ACID

**Biodegradation** Water - Degradation 86%: 28 days

### Bioaccumulative potential

**Partition coefficient** Not available.

#### Ecological information on ingredients.

#### 2-HYDROXYETHYL METHACRYLATE

**Bio-Accumulative Potential** BCF: 1.34 - 1.54,

### Mobility in soil

#### Ecological information on ingredients.

#### 2-HYDROXYETHYL METHACRYLATE

**Adsorption/desorption coefficient** Water - Koc: 42.7 @ 20°C

## 13. Disposal considerations

### Waste treatment methods

**General information** Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

**Disposal methods** Dispose of according to Federal, State and local governmental regulations.

## 14. Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

### UN Number

Not applicable.

**UN No. (DOT)** Not applicable.

### UN proper shipping name

Not applicable.

**Proper shipping name (DOT)** Not applicable.

### Transport hazard class(es)

## Permabond MM115 Pure

No transport warning sign required.

### **DOT transport labels**

No transport warning sign required.

### **Packing group**

Not applicable.

**DOT packing group** Not applicable.

### **Environmental hazards**

#### **Environmentally Hazardous Substance**

No.

### **Special precautions for user**

Not applicable.

**DOT reportable quantity** Not applicable.

**DOT TIH Zone** Not applicable.

**Transport in bulk according to** Not applicable.

**Annex II of MARPOL 73/78**

**and the IBC Code**

## **15. Regulatory information**

### **US Federal Regulations**

#### **SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None above reporting de minimis.

#### **CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

The following ingredients are listed or exempt:

*CUMENE HYDROPEROXIDE*

Final CERCLA RQ: 10(4.54) pounds (Kilograms)

#### **SARA 313 Emission Reporting**

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372)

*CUMENE HYDROPEROXIDE*

1.0 %

#### **SARA (311/312) Hazard Categories**

Immediate Health, Delayed Health

### **US State Regulations**

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

This product contains a chemical known to the state of California to cause cancer.

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

#### **California Air Toxics "Hot Spots" (A-I)**

*CUMENE HYDROPEROXIDE*

Present.

*CUMENE*

Present.

## Permabond MM115 Pure

*ACETOPHENONE*

Present.

### California Directors List of Hazardous Substances

*CUMENE*

Present.

*METHACRYLIC ACID*

Present.

### Massachusetts "Right To Know" List

*CUMENE HYDROPEROXIDE*

Present.

*CUMENE*

Present.

*ACETOPHENONE*

Present.

*METHACRYLIC ACID*

Present.

### Rhode Island "Right To Know" List

*CUMENE HYDROPEROXIDE*

Present.

*CUMENE*

Present.

*ACETOPHENONE*

Present.

*METHACRYLIC ACID*

Present.

### Minnesota "Right To Know" List

*CUMENE*

Present.

*ACETOPHENONE*

Present.

*METHACRYLIC ACID*

Present.

### New Jersey "Right To Know" List

*CUMENE HYDROPEROXIDE*

Present.

*CUMENE*

Present.

*ACETOPHENONE*

Present.

*METHACRYLIC ACID*

Present.

## Permabond MM115 Pure

### Pennsylvania "Right To Know" List

*CUMENE HYDROPEROXIDE*

Present.

*CUMENE*

Present.

*ACETOPHENONE*

Present.

*METHACRYLIC ACID*

Present.

### Inventories

#### Canada - DSL/NDSL

All the ingredients are listed or exempt.

#### US - TSCA

All the ingredients are listed or exempt.

#### US - TSCA 12(b) Export Notification

None above reporting de minimis.

### 16. Other information

<b>Classification abbreviations and acronyms</b>	Eye Irrit. = Eye irritation Skin Irrit. = Skin irritation Skin Sens. = Skin sensitisation
<b>Revision date</b>	1/31/2018
<b>Revision</b>	3
<b>Supersedes date</b>	5/5/2015
<b>Hazard statements in full</b>	H242 Heating may cause a fire. H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.