



chemical-concepts.com

**800.220.1966**

410 Pike Road • Huntingdon Valley, PA 19006

**Chem-Set™ 6105**  
**Safety Data Sheet**  
*Toughened Acrylic Adhesive*

410 Pike Road  
Huntingdon Valley, PA 19006  
Toll Free: 800.220.1966  
Phone: 267.684.1038  
Fax: 215.357.2754  
sales@chemical-concepts.com  
www.chemical-concepts.com

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product Name:

**Chem-Set™ 6105**

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

Identified uses

Adhesive.

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

Manufacturer Name: **Chemical Concepts, Inc.**

410 Pike Road  
Huntingdon Valley, PA 19006

Phone Number: 800.220.1966

**1.4. Emergency telephone number**

For Chemical Emergencies

INFOTRAC

**800.535.5053**

**SECTION 2: Hazards identification**

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

**Classification (EC/1272/2008)**

Physical hazards

Not Classified

Health hazards

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335

Environmental hazards

Not Classified

**2.2. Label elements**

Pictogram



Signal word

Warning

Hazard statements

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

<b>Precautionary statements</b>	<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>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</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>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p>
<b>Contains</b>	BENZYL METHACRYLATE, [2-[(2-METHYL-1-OXOALLYL)OXY]ETHYL] HYDROGEN SUCCINATE , 2-HYDROXYETHYL METHACRYLATE
<b>Supplementary precautionary statements</b>	<p>P271 Use only outdoors or in a well-ventilated area.</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>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P501 Dispose of contents/container in accordance with existing Community, National and local regulations.</p>

### 2.3. Other hazards

None under normal conditions.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>BENZYL METHACRYLATE</b>	<b>60-100%</b>
CAS number: 2495-37-6	EC number: 219-674-4
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Skin Irrit. 2 - H315	Xi;R36/37/38. R43.
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
STOT SE 3 - H335	
<b>[2-[(2-METHYL-1-OXOALLYL)OXY]ETHYL] HYDROGEN SUCCINATE</b>	<b>5-10%</b>
CAS number: 20882-04-6	EC number: 244-096-4
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
STOT SE 3 - H335	
<b>2-HYDROXYETHYL METHACRYLATE</b>	<b>1-5%</b>
CAS number: 868-77-9	EC number: 212-782-2
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Eye Irrit. 2 - H319	R43 Xi;R36/38
Skin Sens. 1 - H317	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

<b>Inhalation</b>	Move the exposed person to fresh air. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. If symptoms develop, obtain medical attention
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

<b>Inhalation</b>	May cause respiratory irritation.
<b>Skin contact</b>	Skin irritation. Mild dermatitis, allergic skin rash.
<b>Eye contact</b>	Irritating and may cause redness and pain.

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

<b>Notes for the doctor</b>	No specific recommendations. Treat symptomatically.
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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Hazardous combustion products</b>	Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons. Oxides of nitrogen.
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**5.3. Advice for firefighters**

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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**6.2. Environmental precautions**

<b>Environmental precautions</b>	Not considered to be a significant hazard due to the small quantities used. Avoid discharge into drains.
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**6.3. Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled containers for disposal.
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**6.4. Reference to other sections**

<b>Reference to other sections</b>	For personal protection, see Section 8. For waste disposal, see section 13.
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**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

**Usage precautions** Use in a well ventilated area. Avoid contact with skin and eyes. Avoid eating, drinking and smoking when using the product.

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

**Storage precautions** Keep only in the original container in a cool, well-ventilated place. Keep container dry. Store in closed original container at temperatures between 2°C and 7°C. Never return unused material to storage receptacle.

### 7.3. Specific end use(s)

**Usage description** Adhesive.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield. Personal eye protection should conform to EN 166

#### Hand protection

Nitrile rubber or Viton™ gloves are recommended. Cotton or other absorbent gloves should not be worn. Gloves should conform to EN 374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

#### 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 hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Use of good industrial hygiene practices is required.

#### Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

## SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Paste.
<b>Colour</b>	White/off-white.
<b>Odour</b>	Acrylic
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not relevant.
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	Not applicable.
<b>Flash point</b>	>100°C
<b>Evaporation rate</b>	Not available.

<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	1.0
<b>Solubility(ies)</b>	Miscible with the following materials: Organic solvents.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	≈225000 mPa s @ 23°C Thixotropic
<b>Oxidising properties</b>	Not available.

## **9.2. Other information**

<b>Other information</b>	Not relevant.
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## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

<b>Reactivity</b>	The following materials may react with the product: Strong oxidising agents.
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### **10.2. Chemical stability**

<b>Stability</b>	Stable at normal ambient temperatures.
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### **10.3. Possibility of hazardous reactions**

<b>Possibility of hazardous reactions</b>	There are no known reactivity hazards associated with this product.
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### **10.4. Conditions to avoid**

<b>Conditions to avoid</b>	Stable at normal ambient temperatures and when used as recommended.
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### **10.5. Incompatible materials**

<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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### **10.6. Hazardous decomposition products**

<b>Hazardous decomposition products</b>	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.
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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

<b>Toxicological effects</b>	The toxicological properties of this product have not been fully evaluated. Avoid direct contact with skin or eyes. Do not ingest or inhale.
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#### **Skin corrosion/irritation**

<b>Animal data</b>	Irritating to skin.
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#### **Serious eye damage/irritation**

<b>Serious eye damage/irritation</b>	Irritating to eyes.
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#### **Skin sensitisation**

<b>Skin sensitisation</b>	May cause sensitisation by skin contact.
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**Aspiration hazard**

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

**Inhalation** May cause respiratory system irritation.

**Ingestion** No harmful effects expected from quantities likely to be ingested by accident.

**Toxicological information on ingredients.****BENZYL METHACRYLATE****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 3,980.0

**Species** Rat

**ATE oral (mg/kg)** 3,980.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.1

**Species** Rat

**ATE dermal (mg/kg)** 2,000.1

**[2-[(2-METHYL-1-OXOALLYL)OXY]ETHYL] HYDROGEN SUCCINATE****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 2,000.1

**Species** Rat

**ATE oral (mg/kg)** 2,000.1

**2-HYDROXYETHYL METHACRYLATE****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,000.0

**Species** Rat

**ATE oral (mg/kg)** 5,000.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 3,000.0

**Species** Rabbit

**ATE dermal (mg/kg)** 3,000.0

**SECTION 12: Ecological Information**

**Ecotoxicity** The product is not expected to be hazardous to the environment.

**12.1. Toxicity**

**Toxicity** No data available.

Ecological information on ingredients.

**BENZYL METHACRYLATE**

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 48 hours: 4.67 mg/l, Pimephales promelas (Fat-head Minnow)
<b>Acute toxicity - aquatic plants</b>	NOEC, 72 hours: 0.899 mg/l, Desmodesmus subspicatus EC <sub>50</sub> , 72 hours: 2.28 mg/l, Desmodesmus subspicatus
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days: 4.21 mg/l, Daphnia magna

**2-HYDROXYETHYL METHACRYLATE**

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: > 100 mg/l, Oryzias latipes (Red killifish)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 380 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 836 mg/l, Selenastrum capricornutum NOEC, 72 hours: 400 mg/l, Selenastrum capricornutum
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 16 hours: > 3000 mg/l, Pseudomonas fluorescens
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days: 24.1 mg/l, Daphnia magna

**12.2. Persistence and degradability**

**Persistence and degradability** No data available.

Ecological information on ingredients.

**BENZYL METHACRYLATE**

<b>Biodegradation</b>	Water - Degradation 74%: 28 days
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**2-HYDROXYETHYL METHACRYLATE**

<b>Biodegradation</b>	Water - Degradation 84%: 28 days
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**12.3. Bioaccumulative potential**

**Bioaccumulative potential** No data available on bioaccumulation.

Ecological information on ingredients.

**2-HYDROXYETHYL METHACRYLATE**

<b>Bioaccumulative potential</b>	BCF: 1.34 - 1.54,
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**12.4. Mobility in soil**

**Mobility** No data available.

Ecological information on ingredients.

**BENZYL METHACRYLATE**

**Adsorption/desorption coefficient** - log Koc: 2.57 @ 25°C

## 2-HYDROXYETHYL METHACRYLATE

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

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

**General information** Waste disposal should be in accordance with existing Community, National and local regulations Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

**Disposal methods** Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

**Waste class** 08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances.

## **SECTION 14: Transport information**

**General** The product is not classified as dangerous for carriage.

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

Not applicable.

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

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.



**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

<b>National regulations</b>	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>EU legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
<b>Guidance</b>	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

<b>Revision date</b>	14/03/2016
<b>Revision</b>	2
<b>Supersedes date</b>	26/05/2015
<b>Hazard statements in full</b>	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

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.



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**800.220.1966**

## SAFETY DATA SHEET

### Chem-Set™ 6105 Technical Data Sheet *Toughened Acrylic Adhesive*

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Huntingdon Valley, PA 19006  
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www.chemical-concepts.com

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Product name **Chem-Set™ 6105**

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

Identified uses Adhesive.

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

Supplier

##### 1.4. Emergency telephone number

Emergency telephone

#### SECTION 2: Hazards identification

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

###### Classification (EC/1272/2008)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335

Environmental hazards Not Classified

##### 2.2. Label elements

Pictogram



Signal word Warning

Hazard statements  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

<b>Precautionary statements</b>	P280 Wear protective gloves, eye and face protection. P302+P352a IF ON SKIN: Wash with plenty of soap and water 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. P308+P313 IF exposed or concerned: Get medical advice/ attention.
<b>Contains</b>	BENZYL METHACRYLATE, 2-ETHYLHEXYL METHACRYLATE
<b>Supplementary precautionary statements</b>	P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with existing Community, National and local regulations.

### 2.3. Other hazards

None under normal conditions.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>BENZYL METHACRYLATE</b>	<b>30-60%</b>
CAS number: 2495-37-6	EC number: 219-674-4
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Skin Irrit. 2 - H315	Xi;R36/37/38. R43.
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
STOT SE 3 - H335	
<b>2-ETHYLHEXYL METHACRYLATE</b>	<b>10-30%</b>
CAS number: 688-84-6	EC number: 211-708-6
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Skin Sens. 1 - H317	Xi;R36/37/38.
Aquatic Chronic 3 - H412	
<b>TRIETHYLBORANE-1,3-DIAMINOPROPANE COMPLEX</b>	<b>1-5%</b>
CAS number: 148861-07-8	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Acute Tox. 4 - H312	Xn;R21. C;R35.
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Move the exposed person to fresh air. Get medical attention if any discomfort continues.

<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. If symptoms develop, obtain medical attention
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

<b>Inhalation</b>	May cause respiratory irritation.
<b>Skin contact</b>	Skin irritation. Mild dermatitis, allergic skin rash.
<b>Eye contact</b>	Irritating and may cause redness and pain.

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

<b>Notes for the doctor</b>	No specific recommendations. Treat symptomatically.
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### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Hazardous combustion products</b>	Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons. Oxides of nitrogen.
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#### **5.3. Advice for firefighters**

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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### **SECTION 6: Accidental release measures**

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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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#### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Not considered to be a significant hazard due to the small quantities used. Avoid discharge into drains.
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#### **6.3. Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled containers for disposal.
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#### **6.4. Reference to other sections**

<b>Reference to other sections</b>	For personal protection, see Section 8. For waste disposal, see section 13.
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### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

<b>Usage precautions</b>	Use in a well ventilated area. Avoid contact with skin and eyes. Avoid eating, drinking and smoking when using the product.
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#### **7.2. Conditions for safe storage, including any incompatibilities**

**Storage precautions** Keep only in the original container in a cool, well-ventilated place. Keep container dry. Store in closed original container at temperatures between 2°C and 7°C. Never return unused material to storage receptacle.

### 7.3. Specific end use(s)

**Usage description** Adhesive.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield. Personal eye protection should conform to EN 166

#### Hand protection

Nitrile rubber or Viton™ gloves are recommended. Cotton or other absorbent gloves should not be worn. Gloves should conform to EN 374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

#### 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 hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Use of good industrial hygiene practices is required.

#### Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

## SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Colourless to pale yellow.
<b>Odour</b>	Acrylic
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not relevant.
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	Not applicable.
<b>Flash point</b>	>100°C
<b>Evaporation rate</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Vapour pressure</b>	Not available.

Vapour density	Not available.
Relative density	1.0
Solubility(ies)	Miscible with the following materials: Organic solvents.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	≈25000 mPa s @ 23°C
Oxidising properties	Not available.

## 9.2. Other information

Other information	Not relevant.
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## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Reactivity	The following materials may react with the product: Strong oxidising agents.
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### 10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	There are no known reactivity hazards associated with this product.
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### 10.4. Conditions to avoid

Conditions to avoid	Stable at normal ambient temperatures and when used as recommended.
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### 10.5. Incompatible materials

Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.
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## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Toxicological effects	The toxicological properties of this product have not been fully evaluated. Avoid direct contact with skin or eyes. Do not ingest or inhale.
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### Skin corrosion/irritation

Animal data	Irritating to skin.
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### Serious eye damage/irritation

Serious eye damage/irritation	Irritating to eyes.
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### Skin sensitisation

Skin sensitisation	May cause sensitisation by skin contact.
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### Aspiration hazard

Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.
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**Inhalation** May cause respiratory system irritation.

**Ingestion** No harmful effects expected from quantities likely to be ingested by accident.

Toxicological information on ingredients.

BENZYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 3,980.0  
mg/kg)

Species Rat

ATE oral (mg/kg) 3,980.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.1  
mg/kg)

Species Rat

ATE dermal (mg/kg) 2,000.1

2-ETHYLHEXYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 2,000.1  
mg/kg)

Species Rat

ATE oral (mg/kg) 2,000.1

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

TRIMETHYLENEDIAMINE

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 707.0  
mg/kg)

Species Rat

ATE oral (mg/kg) 707.0

Acute toxicity - dermal

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

Species Rabbit

ATE dermal (mg/kg) 200.0

**SECTION 12: Ecological Information**

**Ecotoxicity** The product is not expected to be hazardous to the environment.

12.1. Toxicity

**Toxicity** No data available.

Ecological information on ingredients.

**BENZYL METHACRYLATE**

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 48 hours: 4.67 mg/l, Pimephales promelas (Fat-head Minnow)
<b>Acute toxicity - aquatic plants</b>	NOEC, 72 hours: 0.899 mg/l, Desmodemus subspicatus EC <sub>50</sub> , 72 hours: 2.28 mg/l, Desmodemus subspicatus
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days: 4.21 mg/l, Daphnia magna

**2-ETHYLHEXYL METHACRYLATE**

<b>Acute toxicity - fish</b>	EC <sub>50</sub> , 96 hours: 2.78 mg/l, Oryzias latipes (Red killifish)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 4.56 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 7.68 mg/l, Selenastrum capricornutum NOEC, 72 hours: 0.28 mg/l, Selenastrum capricornutum
<b>Acute toxicity - microorganisms</b>	NOEC, 28 days: 100 mg/l, Activated sludge
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days: 0.11 mg/l, Daphnia magna

**TRIMETHYLENEDIAMINE**

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: > 100 - < 150 mg/l, Leuciscus idus (Golden orfe)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 27.2 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 175 mg/l, Scenedesmus subspicatus
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 17 hours: 67.2 mg/l, Pseudomonas putida EC <sub>20</sub> , 30 minutes: 1995 mg/l, Activated sludge

**12.2. Persistence and degradability**

**Persistence and degradability** No data available.

Ecological information on ingredients.

**BENZYL METHACRYLATE**

**Biodegradation** Water - Degradation 74%: 28 days

**2-ETHYLHEXYL METHACRYLATE**

**Biodegradation** Water - Degradation 88%: 28 days

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** No data available on bioaccumulation.

**12.4. Mobility in soil**



**Mobility** No data available.

**Ecological information on ingredients.**

**BENZYL METHACRYLATE**

**Adsorption/desorption coefficient** - log Koc: 2.57 @ 25°C

**12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

**Other adverse effects** None known.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**General information** Waste disposal should be in accordance with existing Community, National and local regulations Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

**Disposal methods** Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

**Waste class** 08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances.

**SECTION 14: Transport information**

**General** The product is not classified as dangerous for carriage.

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

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

Not applicable.

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

**Environmentally hazardous substance/marine pollutant**

No.

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

<b>National regulations</b>	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>EU legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
<b>Guidance</b>	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

<b>Revision date</b>	14/03/2016
<b>Revision</b>	2
<b>Supersedes date</b>	26/05/2015
<b>Hazard statements in full</b>	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. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.



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.