

# MATERIAL SAFETY DATA SHEET

Commission Regulation (EU) No 2015/830 of 28 May 2015

## MONOLITH 342-1 Activator

Issue date: 31.3.2000

Revision: 12.3.2021

### SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY /UNDERTAKING

- 1.1 Product identifier:**  
**Product name:** MONOLITH 342-1 Activator  
**UFI:** G690-00P0-A00Q-M9FK
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
 Characteristics: Two-part methacrylate adhesive (activator)  
 Identified uses: Adhesive
- 1.3 Details of the supplier of the safety data sheet:**  
 Details of the supplier of safety data sheet: PROXIMA ADHESIVES Sp. z o. o.  
 ul. Piłsudskiego 38  
 97-400 Bełchatów  
 Telephone no: +48 44 632 89 22  
 Fax: +48 44 632 89 22
- 1.4 Emergency telephone number:**  
 European emergency number: 112

### 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  
**Environmental hazards:** Aquatic Chronic 3 - H412
- 2.2 Label elements:**  
**Hazard pictograms:**



**Signal word:**

Warning

**Hazard statements:**

H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P261 Avoid breathing vapour/ spray.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Contains:**

BENZOYL PEROXIDE, EPOXY RESIN (Number average MW <= 700), p(BD/MMA/STY)

**Supplementary precautionary statements:**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P220 Keep away from combustible materials.
- P234 Keep only in original packaging.
- P264 Wash contaminated skin thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P308+P313 IF exposed or concerned: Get medical advice/ attention.
- P321 Specific treatment (see medical advice on this label).
- P332+P313 If skin irritation occurs: Get medical advice/ attention.
- 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.
- P391 Collect spillage.
- P405 Store locked up.
- P410 Protect from sunlight.
- P411+P235 Store at temperatures not exceeding °C/°F. Keep cool.
- P420 Store separately.
- P501 Dispose of contents/ container in accordance with national regulations.

**2.3 Other hazards:**

This product does not contain any substances classified as PBT or vPvB.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

**3.2 Mixtures:**

<b>BENZOYL PEROXIDE</b> <b>Classification</b> Org. Perox. B – H241 Eye Irrit. 2 – H319 Skin Sens. 1 - H317	<b>10-30%</b>	CAS number: 94-36-0	EC number: 202-327-6
<b>EPOXY RESIN (Number average MW &lt;= 700)</b> REACH registration number: 01-2119456619-26-0000 <b>Classification</b> Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 Skin Sens. 1 – H317 Aquatic Chronic 2 - H411	<b>10-30%</b>	CAS number: 25068-38-6	EC number: 500-033-5
<b>p(BD/MMA/STY)</b> <b>Classification</b> Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 Skin Sens. 1 - H317	<b>10-30%</b>	CAS number: 25053-09-2	

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

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

**Inhalation:**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

**Ingestion:**

Get medical attention immediately. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

**Skin contact:**

Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

**Eye contact:**

Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention

**4.2 Most important symptoms and effects, both acute and delayed:****General information:**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**4.3 Indication of any immediate medical attention and special treatment needed:****Notes for the doctor:**

Treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media:****Suitable extinguishing media:**

Extinguish with carbon dioxide or dry powder. Do not use water jet as an extinguisher, as this will spread the fire.

**5.2 Special hazards arising from the substance or mixture:****Specific hazards:**

Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m<sup>3</sup>. Oxides of carbon. Oxides of nitrogen.

**5.3 Advice for firefighters:****Special protective equipment for firefighters:**

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures:****Personal precautions:**

No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapours and contact with skin and eyes.

**6.2 Environmental precautions:**

Do not discharge into drains or watercourses or onto the ground.

**6.3 Methods and material for containment and cleaning up:****Methods for cleaning up:**

Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

**6.4 Reference to other sections:**

For waste disposal, see Section 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling:****Usage precautions:**

Keep away from heat, sparks and open flame. Avoid contact with skin and eyes.

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

### Storage precautions:

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store in closed original container at temperatures between 0°C and 40°C. Store away from incompatible materials (see Section 10).

## 7.3. Specific end use(s):

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters:

#### Occupational exposure limits:

##### BENZOYL PEROXIDE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit.

##### BENZOYL PEROXIDE (CAS: 94-36-0)

#### DNEL

Workers - Inhalation; Long term systemic effects: 11.75 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 6.6 mg/kg/day

##### EPOXY RESIN (Number average MW <= 700) (CAS: 25068-38-6)

#### DNEL

Workers - Dermal; Short term systemic effects: 8.33 mg/kg/day

Workers - Inhalation; Short term systemic effects: 12.25 mg/m<sup>3</sup>

### 8.2. Exposure controls:

#### Protective equipment:



#### Appropriate engineering controls:

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection:

Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

#### Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. 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. The selected gloves should have a breakthrough time of at least 8 hours. To protect hands from chemicals, gloves should comply with European Standard EN374.

#### Other skin and body protection:

Wear chemical protective suit.

#### Hygiene measures:

Provide eyewash station and safety shower. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

### Respiratory protection:

If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Wear a respirator fitted with the following cartridge: Organic vapour filter. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state	Viscous liquid
Odour	Slight
Melting point	Not determined
Initial boiling point and range	Not determined
Flash point	Not determined
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	1.0-1.25 @ °C
Solubility(ies)	Slightly soluble in water
Auto-ignition temperature	Not determined

### 9.2 Other information:

#### Volatile organic compound:

This product contains a maximum VOC content of <50 g/litre.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

The following materials may react with the product: Strong oxidising agents.

### 10.2 Chemical stability:

**Stability:** Unstable.

### 10.3 Possibility of hazardous reactions:

Not known.

### 10.4 Conditions to avoid:

Avoid heat. Avoid contact with the following materials: Strong oxidising agents. Avoid contact with acids and alkalis.

### 10.5 Incompatible materials:

#### Materials to avoid:

Strong alkalis. Strong oxidising agents. Strong acids.

### 10.6 Hazardous decomposition products:

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

#### Acute toxicity – inhalation:

ATE inhalation (gases ppm) 50,000.0

ATE inhalation (vapours mg/l) 122.22

ATE inhalation (dusts/mists mg/l) 16.67

#### Inhalation:

Irritating to respiratory system. Vapours may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing.

**Ingestion:**

May cause internal injury. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. Gastrointestinal symptoms, including upset stomach.

**Skin contact:**

Irritating to skin. Prolonged and frequent contact may cause redness and irritation. May cause sensitisation by skin contact.

**Eye contact:**

Irritating to eyes. Repeated exposure may cause chronic eye irritation.

**Acute and chronic health hazards:**

The product contains an epoxy resin. May cause sensitization or allergic reactions in sensitive individuals.

**Route of exposure:**

Inhalation Ingestion. Skin and/or eye contact.

**Target organs:**

Eyes Skin Respiratory system, lungs.

**Toxicological information on ingredients:****BENZOYL PEROXIDE****Acute toxicity – oral:**

Acute toxicity oral (LD <sub>50</sub> mg/kg)	7,710.0
Species	Rat
ATE oral (mg/kg)	7,710.0

**11.2 Information on other hazards:**

Not konow.

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity:**

The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

**12.1 Toxicity:**

Not determined.

**12.2 Persistence and degradability:**

The degradability of the product is not known.

**12.3 Bioaccumulative potential:**

Not determined.

**12.4 Mobility in soil:**

Mobility: The product is miscible with water and may spread in water systems.

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

This substance is not classified as PBT or vPvB according to current EU criteria.

**12.6 Other adverse effects:**

Not konow.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

#### General information:

Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

#### Disposal methods:

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14. TRANSPORT INFORMATION

#### General:

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1 UN number:

Not applicable.

### 14.2 UN proper shipping name:

Not applicable

### 14.3 Transport hazard class(es):

#### Transport labels:

No transport warning sign required.

### 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 Maritime transport in bulk according to IMO instruments:

No information required.

## SECTION 15: REGULATORY INFORMATION

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

#### EU legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (as amended).

### 15.2 Chemical safety assessment:

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

#### Hazard statements in full:

- H241 Heating may cause a fire or explosion.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

**Abbreviations:**

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment, Hazard Category 3

Org. Perox. B Organic peroxide ,

**Revision:**

1. Issue date: 31.03.2000
2. Revision date 008: 12.03.2021
3. All sections updated

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 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.



# MATERIAL SAFETY DATA SHEET

Commission Regulation (EU) No 2015/830 of 28 May 2015

## MONOLITH 342-1 Adhesive

Issue date: 31.3.2000

Revision: 12.3.2021

### SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY /UNDERTAKING

- 1.1 Product identifier:**  
**Product name:** MONOLITH 342-1 Adhesive  
**UFI:** G690-00P0-A00Q-M9FK
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
 Characteristics: Two-part methacrylate adhesive (activator)  
 Identified uses: Adhesive
- 1.3 Details of the supplier of the safety data sheet:**  
 Details of the supplier of safety data sheet: PROXIMA ADHESIVES Sp. z o. o.  
 ul. Piłsudskiego 38  
 97-400 Bełchatów  
 Telephone no: +48 44 632 89 22  
 Fax: +48 44 632 89 22
- 1.4 Emergency telephone number:**  
 European emergency number: 112

### SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture Classification (EC 1272/2008):**  
**Physical hazards:** Flam. Liq. 2 – H225  
**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:**  
**Hazard pictograms:**



**Signal word:**

Danger

**Hazard statements:**

H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation.

**Precautionary statements:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P261 Avoid breathing vapour/ spray.  
 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 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.

**Contains:**

METHYL METHACRYLATE, METHACRYLIC ACID

**Supplementary precautionary statements:**

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P264 Wash contaminated skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P302+P352 IF ON SKIN: Wash with plenty of water.

P312 Call a POISON CENTRE/doctor if you feel unwell.

P321 Specific treatment (see medical advice on this label).

P332+P313 If skin irritation occurs: Get medical advice/ attention.

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.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulation.

**2.3 Other hazards:**

This product does not contain any substances classified as PBT or vPvB.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

**3.2 Mixtures:**

**methyl methacrylate**

**60-100%**

CAS number: 80-62-6

EC number: 201-297-1

REACH registration number: 01-2119452498-28-0000

**Classification**

Flam. Liq. 2 – H225

Skin Irrit. 2 – H315

Skin Sens. 1 – H317

STOT SE 3 - H335

**methacrylic acid**

**5-10%**

CAS number: 79-41-4

EC number: 201-204-4

REACH registration number: 01-2119463884-26-0000

**Classification**

Acute Tox. 4 – H302

Acute Tox. 4 – H312

Skin Corr. 1A – H314

Eye Dam. 1 – H318

STOT SE 3 - H335

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

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures:

#### General information:

Do not breathe vapour/spray. Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### Inhalation:

Move affected person to fresh air at once. Get medical attention if any discomfort continues.

#### Ingestion:

Do not induce vomiting. Give plenty of water to drink. Get medical attention.

#### Skin contact:

Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

#### Eye contact:

Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if irritation persists after washing.

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

#### General information:

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

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

#### Notes for the doctor:

No specific recommendations. If in doubt, get medical attention promptly.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

#### Suitable extinguishing media:

Extinguish with foam, carbon dioxide or dry powder.

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

#### Specific hazards:

Highly flammable Avoid breathing fire gases or vapours. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Polymerises easily with evolution of heat.

### 5.3 Advice for firefighters:

Protective actions during firefighting:

Keep up-wind to avoid fumes. Do not use water jet as an extinguisher, as this will spread the fire. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.

#### Special protective equipment for firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### Personal precautions:

Warn everybody of potential hazards and evacuate if necessary. No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of spray mist and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

- 6.2 Environmental precautions:**  
**Environmental precautions:**  
 Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
- 6.3 Methods and material for containment and cleaning up:**  
**Methods for cleaning up:**  
 Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.
- 6.4 Reference to other sections:**  
**Reference to other sections:**  
 Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards.

## SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling:**  
**Usage precautions:**  
 Use only in well-ventilated areas. Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Do not breathe vapour. Avoid contact with skin and eyes. Take precautionary measures against static discharges. Storage tanks and other containers must be earthed. No smoking, sparks, flames or other sources of ignition near spillage. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented.
- 7.2 Conditions for safe storage, including any incompatibilities:**  
**Storage precautions:**  
 Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Store away from incompatible materials (see Section 10).
- 7.3 Specific end use(s):**  
**Specific end use(s):**  
 The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters:**  
**Occupational exposure limits:**  
**methyl methacrylate**  
 Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m<sup>3</sup>  
 Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m<sup>3</sup>
- methacrylic acid**  
 Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m<sup>3</sup>  
 Short-term exposure limit (15-minute): WEL 40 ppm 143 mg/m<sup>3</sup>  
 WEL = Workplace Exposure Limit.
- Ingredient comments**  
**WEL = Workplace Exposure Limits**
- 8.2 Exposure controls:**  
**Protective equipment:**



**Appropriate engineering controls:**

Provide adequate general and local exhaust ventilation.

**Eye/face protection:**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

**Hand protection:**

Wear protective gloves made of the following material: Rubber or plastic. The selected gloves should have a breakthrough time of at least 8 hours. To protect hands from chemicals, gloves should comply with European Standard EN374.

**Other skin and body protection:**

Wear apron or protective clothing in case of contact.

**Hygiene measures:**

Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product. Change work clothing daily before leaving workplace.

**Respiratory protection:**

If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties:**

Physical state	liquid, paste
Colour	White/off-white
Odour	Slight pungent
pH	pH (concentrated solution): 6 > 7 @ 20oC
Melting point	-47.7°C
Initial boiling point and range	101°C @
Flash point	10°C
Evaporation rate	3 (butyl acetate =1)
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 12.5 Lower flammable/explosive limit: 1.7
Relative density	0.96 @ 25 oC
Viscosity	100,000-125,000 cP @ 25°C

**9.2 Other information:**

Other information Not available

## SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity:****Reactivity:**

The following materials may react with the product: Strong oxidising agents. Strong reducing agents. Strong alkalis.

**10.2 Chemical stability:****Stability:**

May polymerise.

- 10.3 Possibility of hazardous reactions:**  
**Possibility of hazardous reactions:**  
 May polymerise.
- 10.4 Conditions to avoid:**  
**Conditions to avoid:**  
 Heating may generate flammable vapours. Vapours may form explosive mixtures with air. Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time.
- 10.5 Incompatible materials:**  
**Materials to avoid:**  
 Avoid contact with the following materials: Oxidising agents. Reducing agents. Alkalis - inorganic. Alkalis - organic.
- 10.6 Hazardous decomposition products:**  
**Hazardous decomposition products:**  
 Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

#### Acute toxicity – oral:

ATE oral (mg/kg) 100,000.0

#### Acute toxicity – dermal:

ATE dermal (mg/kg) 220,000.0

#### Inhalation:

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.

#### Ingestion:

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. Irritating. Symptoms following overexposure may include the following: Nausea, vomiting. Stomach pain.

#### Skin contact:

May be absorbed through the skin. Irritating to skin. Prolonged and frequent contact may cause redness and irritation. May cause sensitisation by skin contact. May cause sensitisation or allergic reactions in sensitive individuals.

#### Eye contact:

Irritating to eyes. A single exposure may cause the following adverse effects: Corneal damage.

#### Target organs:

Prolonged or repeated exposure may cause the following adverse effects: May cause damage to the liver and kidneys. Respiratory system, lungs Central nervous system Prolonged or repeated exposure may cause the following adverse effects: May cause an asthma-like shortness of breath.

#### Toxicological information on ingredients:

##### **methyl methacrylate**

#### Carcinogenicity:

**IARC carcinogenicity:** IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### methacrylic acid

**Acute toxicity – oral:**  
**ATE oral (mg/kg):** 500.0

**Acute toxicity – dermal:**  
**ATE dermal (mg/kg):** 1,100.0

- 11.2. Information on other hazards**  
Not available.

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Avoid release to the environment.

- 12.1 Toxicity:**  
**Toxicity:** Not considered toxic to fish.

- 12.2 Persistence and degradability:**  
**Persistence and degradability:** Methyl methacrylate monomer : Biochemical oxygen demand within 5 days (BOD5) = .14 g/g - 0.9 g/g.

- 12.3 Bioaccumulative potential:**  
**Bioaccumulative potential:** No data available on bioaccumulation.

- 12.4 Mobility in soil:**  
**Mobility:** Do not discharge into drains or watercourses or onto the ground.

- 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 Endocrine disrupting properties:**  
Not available.

- 12.7 Other adverse effects:**  
Not available.

## SECTION 13. DISPOSAL CONSIDERATIONS


- 13.1 Waste treatment methods:**  
**General information:** When handling waste, the safety precautions applying to handling of the product should be considered.

**Disposal methods:**  
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Waste class:**  
08 04 09

## SECTION 14. TRANSPORT INFORMATION

**General:**  
No other information known

- 14.1 UN number:**  
 UN No. (ADR/RID) 1133  
 UN No. (IMDG) 1133  
 UN No. (ICAO) 1133
- 14.2 UN proper shipping name:**  
 Proper shipping name (ADR/RID) ADHESIVES  
 Proper shipping name (IMDG) ADHESIVES  
 Proper shipping name (ICAO) ADHESIVES  
 Proper shipping name (ADN) ADHESIVES
- 14.3 Transport hazard class(es):**  
 ADR/RID class 3  
 ADR/RID label 3  
 IMDG class 3  
 ICAO class/division 3
- Transport labels:**
- 
- 14.4 Packing group:**  
 ADR/RID packing group II  
 IMDG packing group II  
 ICAO packing group II
- 14.5 Environmental hazards:**  
**Environmentally hazardous substance/marine pollutant:**  
 No.
- 14.6 Special precautions for user:**  
 EmS F-E, S-D  
 Emergency Action Code •3YE  
 Hazard Identification Number (ADR/RID) 33  
 Tunnel restriction code (D/E)
- 14.7 Maritime transport in bulk according to IMO instruments:**  
 No information required.

## SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**  
**EU legislation:**  
 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).
- Guidance:**  
 This product is not considered to be corrosive to the skin in vivo according to EU Directive 67/548 EEC as amended.
- 15.2 Chemical safety assessment:**  
 No chemical safety assessment has been carried out.



## SECTION 16: OTHER INFORMATION

### Hazard statements in full:

H225 Highly flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 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.

### Abbreviations:

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 VOC: Volatile Organic Compounds (USA, EU)  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

### Revision:

1. Issue date: 31.03.2000
2. Revision date 008: 12.03.2021
3. All sections updated

*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 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.*