### SAFETY DATA SHEET

1. Identification

Product identifier PLEXUS® MA830/832 EU Gray Activator

Other means of identification

**SKU#** 0642

**Recommended use**Not available. **Recommended restrictions**None known.

Manufacturer/Importer/Supplier/Distributor information

Company name ITW Performance Polymers

Address 35 Brownridge Rd

Unit 1

Halton Hills, ON L7G 0C6

Contact personCustomer ServiceTelephone number978-777-1100

Fax

E-mail

**Emergency telephone** 

number

800-424-9300

Supplier Not available.

### 2. Hazard identification

Physical hazards Not classified.

Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2A

Sensitization, skin Category 1

Environmental hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

**Precautionary statement** 

**Prevention** Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the

workplace. Wear eye protection/face protection. Wear protective gloves.

Response IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None known.

Supplemental information None.

### 3. Composition/information on ingredients

#### **Mixtures**

Material name: PLEXUS® MA830/832 EU Gray Activator
0642 Version #: 02 Revision date: 05-May-2020 Issue date: 12-July-2019

| Chemical name  | Common name and synonyms | CAS number | %         |
|--|--------------------------|------------|-----------|
| BENZOYL PEROXIDE   |                          | 94-36-0    | 10 - 30   |
| DIISODECYL ADIPATE   |                          | 27178-16-1 | 10 - 30   |
| Epoxy Resin:reaction Product Of<br>Bisphenol A And Epichlorohydrin<br>(refer To Epichlorohydrin) | Epoxy resin              | 25068-38-6 | 10 - 30   |
| Titanium dioxide   | Titanium dioxide         | 13463-67-7 | 1 - 5     |
| STYRENE BLOCK POLYMER<br>WITH ISOPRENE,<br>HYDROGENATED  |                          | 68648-89-5 | 0.5 - 1.5 |
| STYRENE-ETHYLENE/BUTYLENE<br>-STYRENE BLOCK COPOLYMER  |                          | 66070-58-4 | 0.5 - 1.5 |
| Other components below reportable  | e levels                 |            | 30 - 60   |

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

Ingestion

delayed

vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Provide general supportive measures and treat symptomatically. Keep victim under observation.

Indication of immediate medical attention and special treatment needed

Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to **General information** protect themselves. Wash contaminated clothing before reuse.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

Move containers from fire area if you can do so without risk.

During fire, gases hazardous to health may be formed.

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

**Environmental precautions** 

### 7. Handling and storage

Precautions for safe handling Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged

exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe

good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

### Occupational exposure limits

| US. | <b>ACGIH</b> | <b>Threshold</b> | Limit | Values |
|-----|--------------|------------------|-------|--------|
|-----|--------------|------------------|-------|--------|

| Components                        | Туре | Value    |  |
|-----------------------------------|------|----------|--|
| BENZOYL PEROXIDE<br>(CAS 94-36-0) | TWA  | 5 mg/m3  |  |
| Titanium dioxide (CAS 13463-67-7) | TWA  | 10 mg/m3 |  |

### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

| Components                           | Туре | Value    |
|--------------------------------------|------|----------|
| BENZOYL PEROXIDE<br>(CAS 94-36-0)    | TWA  | 5 mg/m3  |
| Titanium dioxide (CAS<br>13463-67-7) | TWA  | 10 mg/m3 |

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

| Components                        | Туре | Value    | Form                 |
|-----------------------------------|------|----------|----------------------|
| BENZOYL PEROXIDE<br>(CAS 94-36-0) | TWA  | 5 mg/m3  |                      |
| Titanium dioxide (CAS 13463-67-7) | TWA  | 3 mg/m3  | Respirable fraction. |
|                                   |      | 10 ma/m3 | Total dust           |

### Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

| Components                        | Туре | Value    |  |
|-----------------------------------|------|----------|--|
| BENZOYL PEROXIDE<br>(CAS 94-36-0) | TWA  | 5 mg/m3  |  |
| Titanium dioxide (CAS 13463-67-7) | TWA  | 10 mg/m3 |  |

### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components                        | Туре | Value    |
|-----------------------------------|------|----------|
| BENZOYL PEROXIDE<br>(CAS 94-36-0) | TWA  | 5 mg/m3  |
| Titanium dioxide (CAS 13463-67-7) | TWA  | 10 mg/m3 |

#### Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

| Components                           | Туре | Value    | Form        |
|--------------------------------------|------|----------|-------------|
| BENZOYL PEROXIDE<br>(CAS 94-36-0)    | TWA  | 5 mg/m3  |             |
| Titanium dioxide (CAS<br>13463-67-7) | TWA  | 10 mg/m3 | Total dust. |

#### Canada, Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

| Components                        | Type      | Value    |  |
|-----------------------------------|-----------|----------|--|
| BENZOYL PEROXIDE<br>(CAS 94-36-0) | 15 minute | 10 mg/m3 |  |
|                                   | 8 hour    | 5 mg/m3  |  |
| Titanium dioxide (CAS 13463-67-7) | 15 minute | 20 mg/m3 |  |

#### Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) Components Value Type

8 hour 10 mg/m3

**Biological limit values** 

No biological exposure limits noted for the ingredient(s)

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Face shield is recommended. Eve/face protection

Skin protection

Wear appropriate chemical resistant gloves. **Hand protection** 

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

Viscous. Liquid. **Appearance** 

Physical state Liquid.

**Form** Viscous. Liquid.

Colour Grey. Odour Slight.

Not available. Odour threshold Not available. pН

Melting point/freezing point 103 °C (217.4 °F) estimated Initial boiling point and boiling

range

320 °C (608 °F) estimated

Flash point 129.4 °C (265.0 °F) estimated

**Evaporation rate** Not available. Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper

(%)

Vapour pressure

0.00005 hPa estimated

Not available. Vapour density Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

80 °C (176 °F) estimated **Auto-ignition temperature** 

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Density 1.16 g/cm3 estimated

Not explosive. **Explosive properties** 

Combustible IIIB estimated Flammability class

**Oxidising properties** Not oxidising. Percent volatile 6.32 % estimated 1.16 estimated Specific gravity VOC < 50 g/l Mixed

### 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials. Conditions to avoid

Incompatible materials Acids. Alcohols. Amines.

Hazardous decomposition

products

No hazardous decomposition products are known.

### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

**Eve contact** Causes serious eve irritation.

Ingestion Knowledge about health hazard is incomplete.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Dermatitis, Rash.

#### Information on toxicological effects

**Acute toxicity** Not known.

**Test Results** Components **Species** 

BENZOYL PEROXIDE (CAS 94-36-0)

**Acute** Oral

LD50 Rat 7710 mg/kg

Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye

irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

### Canada - Alberta OELs: Irritant

BENZOYL PEROXIDE (CAS 94-36-0) Irritant Titanium dioxide (CAS 13463-67-7) Irritant

Due to partial or complete lack of data the classification is not possible. Respiratory sensitisation

May cause an allergic skin reaction. Skin sensitisation

Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity Carcinogenicity Due to partial or complete lack of data the classification is not possible.

#### **ACGIH Carcinogens**

BENZOYL PEROXIDE (CAS 94-36-0) A4 Not classifiable as a human carcinogen. Titanium dioxide (CAS 13463-67-7) A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

BENZOYL PEROXIDE (CAS 94-36-0) Not classifiable as a human carcinogen. Titanium dioxide (CAS 13463-67-7) Not classifiable as a human carcinogen.

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#### IARC Monographs. Overall Evaluation of Carcinogenicity

BENZOYL PEROXIDE (CAS 94-36-0) 3 Not classifiable as to carcinogenicity to humans.

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

Due to partial or complete lack of data the classification is not possible. Reproductive toxicity

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Due to partial or complete lack of data the classification is not possible. **Aspiration hazard** 

Prolonged inhalation may be harmful. **Chronic effects** 

### 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

No data is available on the degradability of any ingredients in the mixture. Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

BENZOYL PEROXIDE 3.46

No data available. Mobility in soil

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

### 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of Disposal instructions

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

#### **TDG**

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

## 15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

#### **Controlled Drugs and Substances Act**

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

#### **Greenhouse Gases**

Not listed.

#### **Precursor Control Regulations**

Not regulated.

### International regulations

#### **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

### **Kyoto Protocol**

Not applicable.

#### **Montreal Protocol**

Not applicable.

#### **Basel Convention**

Not applicable.

Country(s) or region

Inventory name

#### **International Inventories**

| Australia   | Australian Inventory of Chemical Substances (AICS)                     | Yes |
|-------------|--|-----|
| Canada      | Domestic Substances List (DSL)   | Yes |
| Canada      | Non-Domestic Substances List (NDSL)                                    | No  |
| China       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes |
| Europe      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe      | European List of Notified Chemical Substances (ELINCS)                 | No  |
| Japan       | Inventory of Existing and New Chemical Substances (ENCS)               | No  |
| Korea       | Existing Chemicals List (ECL)  | Yes |
| New Zealand | New Zealand Inventory  | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes |
| Taiwan      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes |

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

### 16. Other information

Issue date12-July-2019Revision date05-May-2020

Version No. 02

United States & Puerto Rico

Disclaimer

ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

Material name: PLEXUS® MA830/832 EU Gray Activator
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On inventory (yes/no)\*

Yes

### SAFETY DATA SHEET

### 1. Identification

**Product identifier** PLEXUS® MA830 Adhesive

Other means of identification

0972 SKU#

Recommended use Not available. Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information **ITW Performance Polymers** Company name

**Address** 35 Brownridge Rd

Unit 1

Halton Hills, ON L7G 0C6

**Customer Service Contact person** Telephone number 978-777-1100

Fax E-mail

**Emergency telephone** 

number

800-424-9300

Not available. **Supplier** 

### 2. Hazard identification

Physical hazards Flammable liquids Category 2 Health hazards Acute toxicity, inhalation Category 4 Skin corrosion/irritation Category 1

Serious eye damage/eye irritation Category 1 Sensitization, skin Category 1A

Specific target organ toxicity following single

exposure

Category 3 respiratory tract irritation

**Environmental hazards** Not classified.

Label elements



Signal word Danger

**Hazard statement** Highly flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an

allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause respiratory

irritation.

**Precautionary statement** 

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe mist/vapours. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Material name: PLEXUS® MA830 Adhesive

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off Response

> immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to

extinguish.

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

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None known.

Supplemental information None.

### 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name                   | Common name and synonyms | CAS number | %       |
|---------------------------------|--------------------------|------------|---------|
| Methyl methacrylate             |                          | 80-62-6    | 40 - 70 |
| Polychloroprene                 |                          | Mixture    | 5 - 10  |
| Methacrylic acid                |                          | 79-41-4    | 3 - 7   |
| Paraffin wax                    |                          | 8002-74-2  | 1 - 5   |
| Styrene/butadiene Copolymer     |                          | 9003-55-8  | 1 - 5   |
| Ethylene glycol                 |                          | 107-21-1   | 0.1 - 1 |
| Other components below reportab | le levels                |            | 15 - 40 |

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison centre or doctor/physician if you feel unwell.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control centre immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.

Ingestion

Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** 

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapour.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

### 7. Handling and storage

#### Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapours. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage. including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition, Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### Occupational exposure limits

IIS ACCIH Throshold Limit Values

| Components                        | Туре | Value    | Form                |
|-----------------------------------|------|----------|---------------------|
| ETHYLENE GLYCOL (CAS<br>107-21-1) | STEL | 10 mg/m3 | Aerosol, inhalable. |

| 110 | ᄼᄼᇆᄓᆈ | Threshold | I imit | Values |
|-----|-------|-----------|--------|--------|

Type

Components

|   |   | 50 ppm  | Vapor fraction   |
|---|---|---|--|
|   | TWA   | 25 ppm  | Vapor fraction   |
| METHACRYLIC ACID (CAS<br>79-41-4)   | TWA   | 20 ppm  |  |
| METHYL METHACRYLATE<br>(CAS 80-62-6)  | STEL  | 100 ppm   |  |
| ,   | TWA   | 50 ppm  |  |
| Paraffin wax (CAS<br>8002-74-2)   | TWA   | 2 mg/m3   | Fume.  |
| Canada. Alberta OELs (Occupation  | nal Health & Safety Code, Sch   | edule 1, Table 2)   |  |
| Components  | Туре  | Value   | Form   |
| ETHYLENE GLYCOL (CAS<br>107-21-1)   | Ceiling   | 100 mg/m3   |  |
| METHACRYLIC ACID (CAS<br>79-41-4)   | TWA   | 70 mg/m3  |  |
|   |   | 20 ppm  |  |
| METHYL METHACRYLATE<br>(CAS 80-62-6)  | STEL  | 410 mg/m3   |  |
|   |   | 100 ppm   |  |
|   | TWA   | 205 mg/m3   |  |
|   |   | 50 ppm  |  |
| Paraffin wax (CAS<br>8002-74-2)   | TWA   | 2 mg/m3   | Fume.  |
| Canada. British Columbia OELs. (0   | Occupational Exposure Limits  | s for Chemical Substances, C  | ccupational Health and   |
| O-f-t D   | -   |   |  |
| Safety Regulation 296/97, as amen   | -   | ., .  | F  |
| Components  | Туре  | Value   | Form   |
| Components ETHYLENE GLYCOL (CAS   | -   | Value<br>100 mg/m3  | <b>Form</b><br>Aerosol   |
| Components ETHYLENE GLYCOL (CAS   | Туре  |   |  |
| Components ETHYLENE GLYCOL (CAS   | Туре  | 100 mg/m3   | Aerosol  |
| Components ETHYLENE GLYCOL (CAS   | <b>Type</b> Ceiling   | 100 mg/m3<br>50 ppm   | Aerosol<br>Vapour.   |
| Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS   | Type Ceiling STEL   | 100 mg/m3<br>50 ppm<br>20 mg/m3   | Aerosol<br>Vapour.<br>Particulate.   |
| Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE   | Type Ceiling STEL TWA   | 100 mg/m3<br>50 ppm<br>20 mg/m3<br>10 mg/m3   | Aerosol<br>Vapour.<br>Particulate.   |
| Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE   | Type Ceiling STEL TWA TWA   | 100 mg/m3<br>50 ppm<br>20 mg/m3<br>10 mg/m3<br>20 ppm   | Aerosol<br>Vapour.<br>Particulate.   |
| Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS 8002-74-2)   | Type Ceiling STEL TWA TWA STEL  | 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 20 ppm   | Aerosol<br>Vapour.<br>Particulate.   |
| Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS 8002-74-2)   | Type Ceiling STEL TWA TWA STEL TWA TWA TWA  | 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3  | Aerosol Vapour. Particulate. Particulate.  |
| Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS 8002-74-2)  Canada. Manitoba OELs (Reg. 217.   | Type Ceiling STEL TWA TWA STEL TWA TWA TWA  | 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3  | Aerosol Vapour. Particulate. Particulate.  |
| Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS 8002-74-2)  Canada. Manitoba OELs (Reg. 217. Components  ETHYLENE GLYCOL (CAS  | Type Ceiling STEL TWA TWA STEL TWA TWA TWA TWA TWA                                  | 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3  | Aerosol Vapour. Particulate. Particulate.  |
| Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS 8002-74-2)  Canada. Manitoba OELs (Reg. 217. Components  ETHYLENE GLYCOL (CAS  | Type Ceiling STEL TWA TWA STEL TWA TWA TWA TWA TWA TWA TWA                          | 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3  And Health Act) Value                               | Aerosol Vapour. Particulate. Particulate. Fume.  |
| Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS 8002-74-2)  Canada. Manitoba OELs (Reg. 217. Components  ETHYLENE GLYCOL (CAS  | Type Ceiling STEL TWA TWA STEL TWA TWA TWA TWA TWA TWA TWA                          | 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3  And Health Act) Value 10 mg/m3                      | Aerosol Vapour. Particulate. Particulate. Fume.  Form Aerosol, inhalable.                |
| Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS  | Type Ceiling STEL TWA TWA STEL TWA TWA TWA TWA TWA STEL TWA TWA STEL STEL STEL STEL | 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3  And Health Act) Value 10 mg/m3 50 ppm               | Aerosol Vapour. Particulate. Particulate. Fume.  Form Aerosol, inhalable. Vapor fraction |
| Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS 8002-74-2)  Canada. Manitoba OELs (Reg. 217 Components  ETHYLENE GLYCOL (CAS 107-21-1)   | Type Ceiling STEL TWA TWA STEL TWA TWA TWA TWA TWA TWA TWA TYPE STEL TWA            | 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3  And Health Act) Value 10 mg/m3 50 ppm 25 ppm        | Aerosol Vapour. Particulate. Particulate. Fume.  Form Aerosol, inhalable. Vapor fraction |
| Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS 8002-74-2)  Canada. Manitoba OELs (Reg. 217 Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYLENE METHACRYLATE | Type Ceiling STEL TWA TWA STEL TWA TWA TWA TWA TWA TWA TYPE STEL TWA TYPE STEL      | 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3  And Health Act) Value 10 mg/m3 50 ppm 25 ppm 20 ppm | Aerosol Vapour. Particulate. Particulate. Fume.  Form Aerosol, inhalable. Vapor fraction |

Value

Form

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| Components   |   | Туре   | and Health Act)<br>Value   | Form   |
|--|---|--|--|--|
| Paraffin wax (CAS 8002-74-2)   |   | TWA  | 2 mg/m3  | Fume.  |
| Canada. Ontario OELs. (Con<br>Components   | itrol of Exposu   | re to Biological or Cho<br>Type  | emical Agents)<br>Value  | Form   |
| ETHYLENE GLYCOL (CAS 107-21-1)   |   | Ceiling  | 100 mg/m3  | Aerosol  |
| METHACRYLIC ACID (CAS 79-41-4)   |   | TWA  | 20 ppm   |  |
| METHYL METHACRYLATE (CAS 80-62-6)  |   | STEL   | 100 ppm  |  |
|  |   | TWA  | 50 ppm   |  |
| Paraffin wax (CAS 8002-74-2)   |   | TWA  | 2 mg/m3  | Fume.  |
| Canada. Quebec OELs. (Min Components   | istry of Labor  | - Regulation respectin<br>Type   | g occupational health and s<br>Value   | safety)<br>Form  |
| ETHYLENE GLYCOL (CAS 107-21-1)   |   | Ceiling  | 127 mg/m3  | Vapor and mist.  |
| ,  |   |  | 50 ppm   | Vapor and mist.  |
| METHACRYLIC ACID (CAS 79-41-4)   |   | TWA  | 70 mg/m3   |  |
| ,  |   |  | 20 ppm   |  |
| METHYL METHACRYLATE (CAS 80-62-6)  |   | TWA  | 205 mg/m3  |  |
|  |   |  | 50 ppm   |  |
|  |   |  |  |  |
| Paraffin wax (CAS 8002-74-2)   |   | TWA  | 2 mg/m3  | Fume.  |
| Paraffin wax (CAS 8002-74-2)  Canada. Saskatchewan OEL Components  | s (Occupation   |  | Ç  | Fume.  |
| 8002-74-2)  Canada. Saskatchewan OEL Components  ETHYLENE GLYCOL (CAS  | s (Occupation   | al Health and Safety R   | egulations, 1996, Table 21)  |  |
| 8002-74-2)  Canada. Saskatchewan OEL  Components   | s (Occupation   | al Health and Safety R<br>Type   | egulations, 1996, Table 21)<br>Value   | Form   |
| 8002-74-2)  Canada. Saskatchewan OEL Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS   | s (Occupation   | al Health and Safety R<br>Type<br>Ceiling  | regulations, 1996, Table 21)<br>Value<br>100 mg/m3   | Form   |
| 8002-74-2)  Canada. Saskatchewan OEL Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS   | s (Occupation   | al Health and Safety R<br>Type<br>Ceiling<br>15 minute   | regulations, 1996, Table 21) Value  100 mg/m3 30 ppm   | Form   |
| 8002-74-2)  Canada. Saskatchewan OEL Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE   | s (Occupation   | al Health and Safety R Type Ceiling 15 minute 8 hour   | regulations, 1996, Table 21) Value  100 mg/m3  30 ppm  20 ppm  | Form   |
| 8002-74-2)  Canada. Saskatchewan OEL Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE   | s (Occupation   | al Health and Safety R<br>Type  Ceiling  15 minute  8 hour  15 minute  | 100 mg/m3 30 ppm 20 ppm 100 ppm  | Form   |
| 8002-74-2)  Canada. Saskatchewan OEL Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS  | s (Occupation   | al Health and Safety R Type Ceiling 15 minute 8 hour 15 minute 8 hour  | 1996, Table 21) Value  100 mg/m3  30 ppm  20 ppm  100 ppm  50 ppm  | Form<br>Aerosol  |
| 8002-74-2)  Canada. Saskatchewan OEL Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS  |   | al Health and Safety R Type Ceiling 15 minute 8 hour 15 minute 8 hour 15 minute  | 100 mg/m3 100 ppm 20 ppm 100 ppm 100 ppm 4 mg/m3 2 mg/m3   | Form Aerosol Fume.   |
| Canada. Saskatchewan OEL Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS 8002-74-2)  logical limit values propriate engineering trols   | No biological Explosion-pro Ventilation rat exhaust ventil exposure limit acceptable let product.   | al Health and Safety R Type  Ceiling  15 minute  8 hour  15 minute  8 hour  15 minute  8 hour  15 minute  6 hour  15 minute  8 hour  15 minute  8 hour  15 minute  16 hour  17 minute  18 hour  19 minute  10 min | legulations, 1996, Table 21) Value  100 mg/m3  30 ppm  20 ppm  100 ppm  50 ppm  4 mg/m3  2 mg/m3  or the ingredient(s).  naust ventilation. Good general conditions. If applicable, using controls to maintain airbor er not been established, main and emergency shower must be   | Form  Aerosol  Fume.  Fume.  al ventilation should be used e process enclosures, local the levels below recommendation airborne levels to an   |
| Canada. Saskatchewan OEL Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS 8002-74-2)  logical limit values propriate engineering trols   | No biological Explosion-pro Ventilation rat exhaust ventil exposure limit acceptable let product. such as perso                             | al Health and Safety R Type  Ceiling  15 minute  8 hour  15 minute  16 minute  17 minute  18 hour  19 exposure limits noted for ordinate of the composure of the c | legulations, 1996, Table 21) Value  100 mg/m3  30 ppm  20 ppm  100 ppm  50 ppm  4 mg/m3  2 mg/m3  or the ingredient(s).  naust ventilation. Good general conditions. If applicable, using controls to maintain airbor er not been established, main and emergency shower must be   | Form  Aerosol  Fume.  Fume.  al ventilation should be used be process enclosures, local rine levels below recommendation airborne levels to an one available when handling to the second |
| Canada. Saskatchewan OEL Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS 8002-74-2)  logical limit values propriate engineering trols   | No biological Explosion-pro Ventilation rat exhaust ventil exposure limit acceptable let product. such as perso Chemical resp               | al Health and Safety R Type  Ceiling  15 minute  8 hour  15 minute  16 minute  17 minute  18 hour  19 exposure limits noted for ordinate of the composure of the c | legulations, 1996, Table 21) Value  100 mg/m3  30 ppm  20 ppm  100 ppm  50 ppm  4 mg/m3  2 mg/m3  or the ingredient(s).  naust ventilation. Good general or conditions. If applicable, using controls to maintain airbore not been established, main and emergency shower must been the our cartridge and full facepiece.  | Form  Aerosol  Fume.  Fume.  al ventilation should be used e process enclosures, local relevels below recommendation airborne levels to an one available when handling to  |
| Canada. Saskatchewan OEL Components  ETHYLENE GLYCOL (CAS 107-21-1) METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS 8002-74-2)  logical limit values propriate engineering trols  vidual protection measures, Eye/face protection Skin protection Hand protection | No biological Explosion-pro Ventilation rat exhaust ventil exposure limit acceptable le product. such as perso Chemical resp                | al Health and Safety R Type  Ceiling  15 minute  8 hour  15 minute  8 hour  15 minute  8 hour  15 minute  8 hour  exposure limits noted for general and local exhes should be matched to ation, or other engineer s. If exposure limits have yel. Eye wash facilities a mal protective equipmorator with organic vaporate chemical resistant states.   | legulations, 1996, Table 21) Value  100 mg/m3  30 ppm  20 ppm  100 ppm  50 ppm  4 mg/m3  2 mg/m3  or the ingredient(s).  naust ventilation. Good general oconditions. If applicable, using controls to maintain airboine not been established, maintaine not b | Form  Aerosol  Fume.  Fume.  al ventilation should be used e process enclosures, local relevels below recommendation airborne levels to an one available when handling to  |
| Canada. Saskatchewan OEL Components  ETHYLENE GLYCOL (CAS 107-21-1)  METHACRYLIC ACID (CAS 79-41-4)  METHYL METHACRYLATE (CAS 80-62-6)  Paraffin wax (CAS 8002-74-2)  logical limit values propriate engineering trols  evidual protection measures, Eye/face protection Skin protection               | No biological Explosion-pro Ventilation rat exhaust ventil exposure limit acceptable let product. such as perso Chemical resp Wear appropri | al Health and Safety R Type  Ceiling  15 minute  8 hour  15 minute  15 minute  8 hour  15 minute  15 minute  15 minute  15 minute  15 minute  16 minute  17 minute  18 hour  19 exposure limits noted for of general and local exhest should be matched to ation, or other engineer so at a life in the control of the control o | legulations, 1996, Table 21) Value  100 mg/m3  30 ppm  20 ppm  100 ppm  50 ppm  4 mg/m3  2 mg/m3  or the ingredient(s).  naust ventilation. Good general oconditions. If applicable, using controls to maintain airboine not been established, maintaine not b | Form  Aerosol  Fume.  Fume.  al ventilation should be used e process enclosures, local rice levels below recommend tain airborne levels to an one available when handling the.   |

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

Appearance Paste.

Physical state Liquid.
Form Paste.
Colour Off-white.
Odour Fragrant
Odour threshold Not available.
pH Not available.

Melting point/freezing point -48 °C (-54.4 °F) estimated
Initial boiling point and boiling 100.5 °C (212.9 °F) estimated

range

Flash point 10.0 °C (50.0 °F) estimated

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

2.1 % estimated

Flammability limit - upper

(%)

12.5 % estimated

Explosive limit - lower (%) Not available.

Explosive limit - upper Not available.

(%)

Vapour pressure 51.33 hPa estimated

Vapour density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water)

Partition coefficient

Not available.

Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Density** 0.95 g/cm3 estimated

**Explosive properties** Not explosive.

Flammability class Flammable IB estimated

Oxidising properties Not oxidising.

Specific gravity 0.95 estimated

### 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerisation does not occur.

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

**Incompatible materials** Strong oxidising agents. Nitrates. Peroxides.

**Hazardous decomposition** No hazardous decomposition products are known.

products

reactions

### 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Harmful if inhaled.

**Skin contact** Causes severe skin burns. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result. May cause respiratory irritation.

Information on toxicological effects

Acute toxicity Harmful if inhaled.

Components Species Test Results

Ethylene glycol (CAS 107-21-1)

Acute Dermal

LD50 Rabbit 9530 mg/kg

Methyl methacrylate (CAS 80-62-6)

Acute Inhalation

LC50 Mouse 18.5 mg/l, 2 Hours

Oral

LD50 Rat 7800 mg/kg

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitisation

**ACGIH** sensitisation

Methyl methacrylate (CAS 80-62-6)

Dermal sensitization

Canada - Alberta OELs: Irritant

Ethylene glycol (CAS 107-21-1) Irritant
Methacrylic acid (CAS 79-41-4) Irritant
Canada - British Columbia OELs: Respiratory or skin sensitiser

Methyl methacrylate (CAS 80-62-6)

Capable of causing respiratory, dermal or conjunctival

sensitization.

Canada - Manitoba OELs Hazard: Dermal sensitization

Methyl methacrylate (CAS 80-62-6)

Dermal sensitization

Canada - Quebec OELs: Sensitizer

Methyl methacrylate (CAS 80-62-6)

Sensitiser.

Canada - Saskatchewan OELs Hazard Data: Sensitiser

Methyl methacrylate (CAS 80-62-6) Sensitiser.

**Respiratory sensitisation** Due to partial or complete lack of data the classification is not possible.

**Skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity** Due to partial or complete lack of data the classification is not possible.

Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

**ACGIH Carcinogens** 

Ethylene glycol (CAS 107-21-1)

Methyl methacrylate (CAS 80-62-6)

A4 Not classifiable as a human carcinogen.

A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Ethylene glycol (CAS 107-21-1)

Mot classifiable as a human carcinogen.

Methyl methacrylate (CAS 80-62-6)

Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Methyl methacrylate (CAS 80-62-6)

Styrene/butadiene Copolymer (CAS 9003-55-8)

3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

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Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

### 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethylene glycol -1.36Methacrylic acid 0.93 Methyl methacrylate 1.38

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### 14. Transport information

**TDG** 

**UN number** UN1133

ADHESIVES containing flammable liquid, Limited Quantity **UN proper shipping name** 

Transport hazard class(es)

**Class** 3 Subsidiary risk Packing group Ш

Not available. **Environmental hazards** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

**UN number** UN1133

**UN proper shipping name** 

Transport hazard class(es)

Adhesives containing flammable liquid, Limited Quantity

3 Class Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 3L

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

#### **IMDG**

UN number UN1133

UN proper shipping name ADHESIVES containing flammable liquid, Limited Quantity

Transport hazard class(es)

Class 3
Subsidiary risk Packing group III
Environmental hazards

Marine pollutant No.
EmS F-E, S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

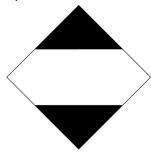
**Transport in bulk according to** Not established.

Annex II of MARPOL 73/78 and the IBC Code

IATA



IMDG; TDG



### 15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

**Controlled Drugs and Substances Act** 

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

International regulations

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

**Kyoto Protocol** 

Not applicable.

**Montreal Protocol** 

Not applicable.

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#### **Basel Convention**

Not applicable.

#### International Inventories

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)                     | No                     |
| Canada               | Domestic Substances List (DSL)   | No                     |
| Canada               | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC)             | No                     |
| Europe               | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe               | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                | Existing Chemicals List (ECL)  | No                     |
| New Zealand          | New Zealand Inventory  | No                     |
| Philippines          | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | No                     |

Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

#### 16. Other information

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**Disclaimer** ITW Performance Polymers cannot anticipate all conditions under which this information and its

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance

for safe handling, use, processing, storage, transportation, disposal and release.

**Revision information** Hazard identification: Hazard statement

Hazard identification: Response First-aid measures: Ingestion

First-aid measures: Indication of immediate medical attention and special treatment needed

First-aid measures: Skin contact

First-aid measures: Most important symptoms/effects, acute and delayed

Handling and storage: Precautions for safe handling

Exposure controls/personal protection: Appropriate engineering controls

Toxicological information: Corrosivity Toxicological information: Ingestion Toxicological information: Skin contact

Toxicological information: Symptoms related to the physical, chemical and toxicological

characteristics

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<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).