# SAFETY DATA SHEET

## 1. Identification

**Product identifier** **Permatex Black Plastic Welder Activator**

**Other means of identification**

**Synonyms** 84126

**Recommended use** Adhesive activator

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company name** ITW Permatex Canada

**Address** c/o ITW Global Brands Canada
2360 Bristol Circle, Suite 101
Oakville, ON L6H 6M5

**Telephone** (905) 693-8900

**E-mail** literature.canada@permatex.com

**Emergency phone number** 800-255-3924 (Chem-Tel)

**Supplier** See above.

## 2. Hazard identification

| | | |
|---|---|---|
| **Physical hazards** | Flammable liquids | Category 2 |
| **Health hazards** | Skin corrosion/irritation | Category 2 |
| | Sensitization, skin | Category 1 |
| | 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 skin irritation.
May cause an allergic skin reaction.
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 and lighting equipment. Use non-sparking tools. Take action to prevent static discharges.
Avoid breathing vapours.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.

**Response** In case of fire: Use dry sand, dry chemical, or alcohol resistant foam to extinguish.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see product label).
IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE if you feel unwell.

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

**Disposal** Dispose of container in accordance with local, regional, national and international regulations.

**Other hazards** None known.

**Supplemental information** Exempt - Consumer product

This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II). This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, or any consumer product as defined in section 2 of the Canada Consumer Product Safety Act.

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| Carbon black | | 1333-86-4 | 0.1 - 1 * |
| Methyl methacrylate | | 80-62-6 | 65 - 85 * |
| Pyridine, 3,5-diethyl-1,2-dihydro-1-phenyl-2-propyl- | | 34562-31-7 | 1 - 5 * |

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

**Composition comments** *CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

**Inhalation** IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.

**Skin contact** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

**Eye contact** Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

**Ingestion** Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed** Skin irritation. May cause redness and pain.
May cause an allergic skin reaction. Dermatitis. Rash.
May cause respiratory irritation.

**Indication of immediate medical attention and special treatment needed** Treat patient symptomatically.

**General information** IF exposed or concerned: Get medical attention. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Keep out of reach of children.

## 5. Fire-fighting measures

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** During fire, gases hazardous to health may be formed. Vapours may travel considerable distance to a source of ignition and flash back.

**Hazardous combustion products** May include and are not limited to: Oxides of carbon.

**Special protective equipment and precautions for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions** Move containers from fire area if you can do so without risk.

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

**General fire hazards** Highly flammable liquid and vapour.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Do not breathe mist or vapour. 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. 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. Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS. |
| **Environmental precautions** | Do not discharge into lakes, streams, ponds or public waters. |

## 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. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Avoid prolonged exposure. Observe good industrial hygiene practices. Wash thoroughly after handling. When handling, do not eat, drink or smoke. |
| **Conditions for safe storage, including any incompatibilities** | Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. Store locked up. |

## 8. Exposure controls/Personal protection

**Occupational exposure limits**

**US. ACGIH Threshold Limit Values**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable fraction. |
| Methyl methacrylate (CAS 80-62-6) | STEL | 100 ppm | |
| | TWA | 50 ppm | |

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

| Components | Type | Value |
|---|---|---|
| Carbon black (CAS 1333-86-4) | TWA | 3.5 mg/m3 |
| Methyl methacrylate (CAS 80-62-6) | STEL | 410 mg/m3 |
| | | 100 ppm |
| | TWA | 205 mg/m3 |
| | | 50 ppm |

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

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable |
| Methyl methacrylate (CAS 80-62-6) | STEL | 100 ppm | |
| | TWA | 50 ppm | |

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

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable fraction. |
| Methyl methacrylate (CAS 80-62-6) | STEL | 100 ppm | |
| | TWA | 50 ppm | |

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

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable fraction. |
| Methyl methacrylate (CAS 80-62-6) | STEL | 100 ppm | |
| | TWA | 50 ppm | |

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

| Components | Type | Value |
|---|---|---|
| Carbon black (CAS 1333-86-4) | TWA | 3.5 mg/m3 |
| Methyl methacrylate (CAS 80-62-6) | TWA | 205 mg/m3 |
| | | 50 ppm |

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

| Components | Type | Value |
|---|---|---|
| Carbon black (CAS 1333-86-4) | 15 minute | 7 mg/m3 |
| | 8 hour | 3.5 mg/m3 |
| Methyl methacrylate (CAS 80-62-6) | 15 minute | 100 ppm |
| | 8 hour | 50 ppm |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** Ensure adequate ventilation.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields.

**Skin protection**

**Hand protection** Natural or butyl rubber, nitrile or neoprene gloves. Confirm with a reputable supplier first.

**Other** As required by employer code.

**Respiratory protection** Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

**Thermal hazards** Not applicable.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. Physical and chemical properties

**Appearance** Viscous

**Physical state** Liquid.

**Form** Liquid.

**Colour** Black

**Odour** Solvent

**Odour threshold** 0.75 ppm

**pH** Not available.

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** 101 °C (213.8 °F)

**Flash point** 12.0 °C (53.6 °F)

**Evaporation rate** > 1 BuAc = 1

**Flammability (solid, gas)** Not applicable.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** 12.5 %

**Flammability limit - upper (%)** 1.6 %

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

**Explosive limit – upper (%)** Not available.

**Vapour pressure** 28 mm Hg @ 20°C

**Vapour density** > 3 Air = 1

**Relative density** 0.95

| | |
|---|---|
| **Solubility(ies)** | |
| **Solubility (water)** | Not available. |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | 421 °C (789.8 °F) |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Other information** | |
| **Explosive properties** | Not explosive. |
| **Oxidising properties** | Not oxidising. |

## 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 reactions** | No dangerous reaction known under conditions of normal use. |
| **Conditions to avoid** | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not mix with other chemicals. |
| **Incompatible materials** | Strong oxidising agents. |
| **Hazardous decomposition products** | May include and are not limited to: Oxides of carbon. |

## 11. Toxicological information

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | May cause irritation to the respiratory system. |
| **Skin contact** | Causes skin irritation. May cause an allergic skin reaction. |
| **Eye contact** | Direct contact with eyes may cause temporary irritation. |
| **Ingestion** | May cause stomach distress, nausea or vomiting. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Skin irritation. May cause redness and pain.<br>May cause an allergic skin reaction. Dermatitis. Rash.<br>May cause respiratory irritation. |

**Information on toxicological effects**

**Acute toxicity**

| Components | Species | Test Results |
|---|---|---|
| Carbon black (CAS 1333-86-4) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | > 3000 mg/kg |
| *Inhalation* | | |
| LC50 | Not available | |
| *Oral* | | |
| LD50 | Rat | > 15400 mg/kg |
| | | > 10000 mg/kg, ECHA |
| | | > 8000 mg/kg, ECHA/HSDB |
| Methyl methacrylate (CAS 80-62-6) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | > 5000 mg/kg, 24 Hours, ECHA |
| *Inhalation* | | |
| LC100 | Guinea pig | 17330 ppm, ECHA |
| | Mouse | 16000 ppm, 4 Hours, ECHA |
| | | 14860 ppm, 3 Hours, ECHA |
| | | 61.8 mg/L, 3 Hours, ECHA |
| | Rat | 16000 ppm, 4 Hours, ECHA |
| LC50 | Mouse | 9600 ppm, 1 Hours, ECHA |

| Components | Species | Test Results |
|---|---|---|
| | | 55 mg/L, 3 Hours, ECHA |
| | | 18.5 mg/L, 2 Hours, HSDB |
| | Rat | 13500 ppm, 3 Hours, ECHA |
| | | 11250 - 12500 ppm, 2 Hours, ECHA |
| | | 29.8 mg/L, 4 Hours, ECHA |
| *Oral* | | |
| LD50 | Guinea pig | 5900 mg/kg, ECHA |
| | Mouse | 5200 mg/kg, ECHA |
| | | 5.5 ml/kg, HSDB |
| | Rabbit | 6550 mg/kg, ECHA |
| | Rat | 7900 mg/kg, ECHA |
| Pyridine, 3,5-diethyl-1,2-dihydro-1-phenyl-2-propyl- (CAS 34562-31-7) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit; Rat | > 1000 mg/kg, 24 h |
| *Inhalation* | | |
| LC50 | Not available | |
| *Oral* | | |
| LD50 | Rat | > 500 mg/kg |

| | |
|---|---|
| **Skin corrosion/irritation** | Causes skin irritation. |
| **Exposure minutes** | Not available. |
| **Erythema value** | Not available. |
| **Oedema value** | Not available. |
| **Serious eye damage/eye irritation** | Not available. |
| **Corneal opacity value** | Not available. |
| **Iris lesion value** | Not available. |
| **Conjunctival reddening value** | Not available. |
| **Conjunctival oedema value** | Not available. |
| **Recover days** | Not available. |
| **Respiratory or skin sensitisation** | |
| **ACGIH sensitisation** | |
| Methyl methacrylate (CAS 80-62-6) | Dermal sensitisation |
| **Canada - Manitoba OELs Hazard: Dermal sensitization** | |
| Methyl methacrylate (CAS 80-62-6) | Dermal sensitisation |
| **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** | Not a respiratory sensitizer. |
| **Skin sensitisation** | May cause an allergic skin reaction. |
| **Germ cell mutagenicity** | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| **Carcinogenicity** | Carbon black is not unbound and in a respirable form within this product. Therefore it is not considered carcinogenic as it is biologically unavailable for the intended product use. |
| **Reproductive toxicity** | This product is not expected to cause reproductive or developmental effects. |
| **Specific target organ toxicity - single exposure** | May cause respiratory irritation. |
| **Specific target organ toxicity - repeated exposure** | Not classified. |
| **Aspiration hazard** | Not an aspiration hazard. |
| **Chronic effects** | May cause damage to organs through prolonged or repeated exposure. |
| **Further information** | Not available. |

## 12. Ecological information

**Ecotoxicity** See below

**Ecotoxicological data**

| Components | | Species | Test Results |
|---|---|---|---|
| Methyl methacrylate (CAS 80-62-6) | | | |
| Crustacea | EC50 | Daphnia | 69 mg/L, 48 Hours |
| **Aquatic** | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 136.3 - 183.4 mg/L, 96 hours |

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

**Bioaccumulative potential**

**Mobility in soil** No data available.

**Mobility in general** Not 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).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

**General** Canada: TDG Proof of Classification: Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

**Transportation of Dangerous Goods (TDG - Canada)**

**Basic shipping requirements:**

**UN number** UN1133
**Proper shipping name** ADHESIVES containing flammable liquid
**Technical name** Methyl methacrylate
**Hazard class** 3
**Packing group** II

**TDG**


## 15. Regulatory information

**Canadian federal 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.

Exempt- consumer product
This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II). This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

**Canada DSL Challenge Substances: Listed substance**

Carbon black (CAS 1333-86-4) Listed

**Export Control List (CEPA 1999, Schedule 3)**

Not listed.

**Greenhouse Gases**

Not listed.

**Precursor Control Regulations**

Not regulated.

**WHMIS status** Hazardous

**International regulations**

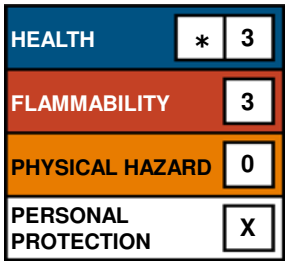
**Inventory status**

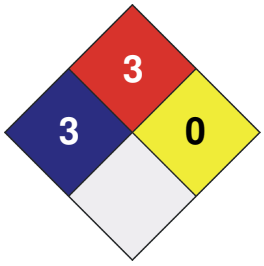
| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |

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

## 16. Other information

| LEGEND | |
|---|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |




**Issue date** 16-July-2020

**Revision date** 16-July-2020

**Version No.** 01

**Other information** For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

**Disclaimer** Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

**Prepared by** Dell Tech Laboratories Ltd. Phone: (519) 858-5021

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** **Permatex Black Plastic Welder Adhesive**

**Other means of identification**

**Synonyms** 84126

**Recommended use** Adhesive

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company name** ITW Permatex Canada

**Address** c/o ITW Global Brands Canada
2360 Bristol Circle, Suite 101
Oakville, ON L6H 6M5

**Telephone** (905) 693-8900

**E-mail** literature.canada@permatex.com

**Emergency phone number** 800-255-3924 (Chem-Tel)

**Supplier** See above.

## 2. Hazard identification

| | | |
|---|---|---|
| **Physical hazards** | Flammable liquids | Category 2 |
| **Health hazards** | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 1 |
| | Sensitization, skin | Category 1 |
| | Carcinogenicity | Category 2 |
| | Specific target organ toxicity following single exposure | Category 3 respiratory tract irritation |
| | Specific target organ toxicity following repeated exposure | Category 2 |

**Environmental hazards** Not classified.

**Label elements**

**Signal word** Danger

**Hazard statement**

Highly flammable liquid and vapour.
Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.
Suspected of causing cancer.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

**Precautionary statement**

**Prevention**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges.
Do not breathe fume.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye protection and face protection.

| | |
|---|---|
| **Response** | In case of fire: Use dry sand, dry chemical, or alcohol resistant foam to extinguish.<br>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see product label).<br>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 CENTER or doctor.<br>IF INHALED: remove person to fresh air and keep comfortable for breathing. Get medical attention if you feel unwell. |
| **Storage** | Store in a well-ventilated place. Keep container tightly closed.<br>Keep cool.<br>Store locked up. |
| **Disposal** | Dispose of container in accordance with local, regional, national and international regulations. |
| **Other hazards** | None known. |
| **Supplemental information** | Exempt - Consumer product<br><br>This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II). This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, or any consumer product as defined in section 2 of the Canada Consumer Product Safety Act. |

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| 2-Propenoic acid, 2-methyl- | | 79-41-4 | 5 - 10 * |
| Cumene | | 98-82-8 | 0.1 - 1 * |
| Hydroperoxide, 1-methyl-1-phenylethyl | | 80-15-9 | 1 - 5 * |
| Methyl methacrylate | | 80-62-6 | 45 - 70 * |
| Tosyl Chloride | | 98-59-9 | 5 - 10 * |

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

| | |
|---|---|
| **Composition comments** | *CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret. |

## 4. First-aid measures

| | |
|---|---|
| **Inhalation** | IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell. |
| **Skin contact** | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. |
| **Eye contact** | 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 or doctor. |
| **Ingestion** | Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Get medical attention if symptoms occur. |
| **Most important symptoms/effects, acute and delayed** | Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.<br>Skin irritation. May cause redness and pain.<br>May cause an allergic skin reaction. Dermatitis. Rash.<br>May cause respiratory irritation. Prolonged exposure may cause chronic effects. |
| **Indication of immediate medical attention and special treatment needed** | Treat patient symptomatically. |
| **General information** | IF exposed or concerned: Get medical attention. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Keep out of reach of children. |

## 5. Fire-fighting measures

| | |
|---|---|
| **Suitable extinguishing media** | Water fog. Foam. Dry chemical powder. Carbon dioxide. |
| **Unsuitable extinguishing media** | Do not use water jet as an extinguisher, as this will spread the fire. |
| **Specific hazards arising from the chemical** | During fire, gases hazardous to health may be formed. Vapours may travel considerable distance to a source of ignition and flash back. |
| **Hazardous combustion products** | May include and are not limited to: Oxides of carbon. |

| | |
|---|---|
| **Special protective equipment and precautions for firefighters** | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| **Fire fighting equipment/instructions** | Move containers from fire area if you can do so without risk. |
| **Specific methods** | Use standard firefighting procedures and consider the hazards of other involved materials. |
| **General fire hazards** | Highly flammable liquid and vapour. |

## 6. Accidental release measures

| | |
|---|---|
| **Personal precautions, protective equipment and emergency procedures** | Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Do not breathe mist or vapour. 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. 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. Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS. |
| **Environmental precautions** | Do not discharge into lakes, streams, ponds or public waters. |

## 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. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Avoid prolonged exposure. Observe good industrial hygiene practices. Wash thoroughly after handling. When handling, do not eat, drink or smoke. |
| **Conditions for safe storage, including any incompatibilities** | Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. Store locked up. |

## 8. Exposure controls/Personal protection

**Occupational exposure limits**

**US. ACGIH Threshold Limit Values**

| Components | Type | Value |
|---|---|---|
| 2-Propenoic acid, 2-methyl- (CAS 79-41-4) | TWA | 20 ppm |
| Cumene (CAS 98-82-8) | TWA | 50 ppm |
| Methyl methacrylate (CAS 80-62-6) | STEL | 100 ppm |
| | TWA | 50 ppm |

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

| Components | Type | Value |
|---|---|---|
| 2-Propenoic acid, 2-methyl- (CAS 79-41-4) | TWA | 70 mg/m3 |
| | | 20 ppm |
| Cumene (CAS 98-82-8) | TWA | 246 mg/m3 |
| | | 50 ppm |
| Methyl methacrylate (CAS 80-62-6) | STEL | 410 mg/m3 |
| | | 100 ppm |
| | TWA | 205 mg/m3 |
| | | 50 ppm |

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

| Components | Type | Value |
|---|---|---|
| 2-Propenoic acid, 2-methyl- (CAS 79-41-4) | TWA | 20 ppm |
| Cumene (CAS 98-82-8) | STEL | 75 ppm |

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

| Components | Type | Value |
|---|---|---|
| | TWA | 25 ppm |
| Methyl methacrylate (CAS 80-62-6) | STEL | 100 ppm |
| | TWA | 50 ppm |

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

| Components | Type | Value |
|---|---|---|
| 2-Propenoic acid, 2-methyl- (CAS 79-41-4) | TWA | 20 ppm |
| Cumene (CAS 98-82-8) | TWA | 50 ppm |
| Methyl methacrylate (CAS 80-62-6) | STEL | 100 ppm |
| | TWA | 50 ppm |

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

| Components | Type | Value |
|---|---|---|
| 2-Propenoic acid, 2-methyl- (CAS 79-41-4) | TWA | 20 ppm |
| Cumene (CAS 98-82-8) | TWA | 50 ppm |
| Methyl methacrylate (CAS 80-62-6) | STEL | 100 ppm |
| | TWA | 50 ppm |

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

| Components | Type | Value |
|---|---|---|
| 2-Propenoic acid, 2-methyl- (CAS 79-41-4) | TWA | 70 mg/m3 |
| | | 20 ppm |
| Cumene (CAS 98-82-8) | TWA | 246 mg/m3 |
| | | 50 ppm |
| Methyl methacrylate (CAS 80-62-6) | TWA | 205 mg/m3 |
| | | 50 ppm |

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

| Components | Type | Value |
|---|---|---|
| 2-Propenoic acid, 2-methyl- (CAS 79-41-4) | 15 minute | 30 ppm |
| | 8 hour | 20 ppm |
| Cumene (CAS 98-82-8) | 15 minute | 74 ppm |
| | 8 hour | 50 ppm |
| Methyl methacrylate (CAS 80-62-6) | 15 minute | 100 ppm |
| | 8 hour | 50 ppm |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** Ensure adequate ventilation.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields.

**Skin protection**

**Hand protection** Natural or butyl rubber, nitrile or neoprene gloves. Confirm with a reputable supplier first.

**Other** As required by employer code.

**Respiratory protection** Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

**Thermal hazards** Not applicable.

| | |
|---|---|
| **General hygiene considerations** | Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. |

## 9. Physical and chemical properties

| | |
|---|---|
| **Appearance** | Viscous |
| **Physical state** | Liquid. |
| **Form** | Liquid. |
| **Colour** | Off white |
| **Odour** | Methacrylic acid. |
| **Odour threshold** | 0.75 ppm |
| **pH** | Not available. |
| **Melting point/freezing point** | Not available. |
| **Initial boiling point and boiling range** | 101 °C (213.8 °F) |
| **Flash point** | 12.0 °C (53.6 °F) |
| **Evaporation rate** | > 1 BuAc = 1 |
| **Flammability (solid, gas)** | Not applicable. |
| **Upper/lower flammability or explosive limits** | |
| **Flammability limit - lower (%)** | 12.5 % |
| **Flammability limit - upper (%)** | 1.6 % |
| **Explosive limit - lower ( %)** | Not available. |
| **Explosive limit – upper (%)** | Not available. |
| **Vapour pressure** | 28 mm Hg @ 20°C |
| **Vapour density** | > 3 Air = 1 |
| **Relative density** | Not available. |
| **Solubility(ies)** | |
| **Solubility (water)** | Not available. |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | 421 °C (789.8 °F) |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Other information** | |
| **Explosive properties** | Not explosive. |
| **Oxidising properties** | Not oxidising. |

## 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 reactions** | No dangerous reaction known under conditions of normal use. |
| **Conditions to avoid** | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not mix with other chemicals. |
| **Incompatible materials** | Strong oxidising agents. |
| **Hazardous decomposition products** | May include and are not limited to: Oxides of carbon. |

## 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. |
| **Eye contact** | Causes serious eye damage. |
| **Ingestion** | May cause stomach distress, nausea or vomiting. |

**Symptoms related to the physical, chemical and toxicological characteristics**

Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Skin irritation. May cause redness and pain.
May cause an allergic skin reaction. Dermatitis. Rash.
May cause respiratory irritation.

**Information on toxicological effects**

**Acute toxicity**

| Components | Species | Test Results |
|---|---|---|
| 2-Propenoic acid, 2-methyl- (CAS 79-41-4) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | 500 - 1000 mg/kg, ECHA |
| *Inhalation* | | |
| LC50 | Rat | 7.1 mg/L, 4 Hours, ECHA/HSDB |
| *Oral* | | |
| LD50 | Mouse | 1600 mg/kg, ECHA/HSDB |
| | Rat | 2260 mg/kg, ECHA |
| | | 2224 mg/kg, ECHA/HSDB |
| | | 1320 mg/kg, ECHA |
| Cumene (CAS 98-82-8) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | > 3160 mg/kg, 24 Hours, ECHA |
| *Inhalation* | | |
| LC50 | Rat | 22.1 mg/L, 1 hr, ECHA |
| *Oral* | | |
| LD50 | Rat | 2260 mg/kg, ECHA |
| Hydroperoxide, 1-methyl-1-phenylethyl (CAS 80-15-9) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rat | 1.1 - 1.4 ml/kg, HSDB |
| | | 500 mg/kg, HSDB |
| | | 1.1 ml/kg, HSDB |
| | | 0.5 ml/kg, HSDB |
| *Inhalation* | | |
| LC50 | Mouse | 200 mg/L, 4 Hours, HSDB |
| *Oral* | | |
| LD50 | Rat | 382 mg/kg, HSDB |
| Methyl methacrylate (CAS 80-62-6) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | > 5000 mg/kg, 24 Hours, ECHA |
| *Inhalation* | | |
| LC100 | Guinea pig | 17330 ppm, ECHA |
| | Mouse | 16000 ppm, 4 Hours, ECHA |
| | | 14860 ppm, 3 Hours, ECHA |
| | | 61.8 mg/L, 3 Hours, ECHA |
| | Rat | 16000 ppm, 4 Hours, ECHA |
| LC50 | Mouse | 9600 ppm, 1 Hours, ECHA |
| | | 55 mg/L, 3 Hours, ECHA |
| | | 18.5 mg/L, 2 Hours, HSDB |
| | Rat | 13500 ppm, 3 Hours, ECHA |
| | | 11250 - 12500 ppm, 2 Hours, ECHA |

| Components | Species | Test Results |
|---|---|---|
| | | 29.8 mg/L, 4 Hours, ECHA |
| *Oral* | | |
| LD50 | Guinea pig | 5900 mg/kg, ECHA |
| | Mouse | 5200 mg/kg, ECHA |
| | | 5.5 ml/kg, HSDB |
| | Rabbit | 6550 mg/kg, ECHA |
| | Rat | 7900 mg/kg, ECHA |
| Tosyl Chloride (CAS 98-59-9) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Not available | |
| *Inhalation* | | |
| LC50 | Not available | |
| *Oral* | | |
| LD50 | Rat | 4680 mg/kg, ECHA |

**Skin corrosion/irritation** Causes skin irritation.

**Exposure minutes** Not available.

**Erythema value** Not available.

**Oedema value** Not available.

**Serious eye damage/eye irritation** Causes serious eye damage.

**Corneal opacity value** Not available.

**Iris lesion value** Not available.

**Conjunctival reddening value** Not available.

**Conjunctival oedema value** Not available.

**Recover days** Not available.

**Respiratory or skin sensitisation**

**ACGIH sensitisation**

Methyl methacrylate (CAS 80-62-6) Dermal sensitisation

**Canada - Alberta OELs: Irritant**

2-Propenoic acid, 2-methyl- (CAS 79-41-4) Irritant

**Canada - Manitoba OELs Hazard: Dermal sensitization**

Methyl methacrylate (CAS 80-62-6) Dermal sensitisation

**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** Not a respiratory sensitizer.

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

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** See below.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Cumene (CAS 98-82-8) Volume 101 - 2B Possibly carcinogenic to humans.

Methyl methacrylate (CAS 80-62-6) Volume 60 - 3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged exposure may cause chronic effects.

**Further information** Not available.

## 12. Ecological information

**Ecotoxicity** See below

**Ecotoxicological data**

| Components | | Species | Test Results |
|---|---|---|---|
| Cumene (CAS 98-82-8) | | | |
| Algae | IC50 | Algae | 2.6 mg/L, 72 Hours |
| Crustacea | EC50 | Daphnia | 0.6 mg/L, 48 Hours |
| **Aquatic** | | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 2.7 mg/L, 96 hours |
| Methyl methacrylate (CAS 80-62-6) | | | |
| Crustacea | EC50 | Daphnia | 69 mg/L, 48 Hours |
| **Aquatic** | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 136.3 - 183.4 mg/L, 96 hours |

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

**Bioaccumulative potential**

**Mobility in soil** No data available.

**Mobility in general** Not 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).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

**General** Canada: TDG Proof of Classification: Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

**Transportation of Dangerous Goods (TDG - Canada)**

**Basic shipping requirements:**

**UN number** UN1133
**Proper shipping name** ADHESIVES containing flammable liquid
**Technical name** Methyl methacrylate
**Hazard class** 3
**Packing group** II

**TDG**

## 15. Regulatory information

**Canadian federal 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.

Exempt- consumer product
This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II). This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

**Export Control List (CEPA 1999, Schedule 3)**

Not listed.

**Greenhouse Gases**

Not listed.

**Precursor Control Regulations**

Not regulated.

**WHMIS status**

Hazardous

**International regulations**

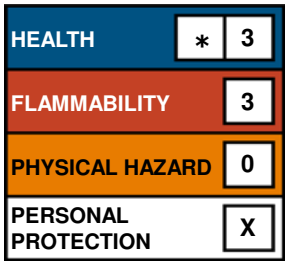
**Inventory status**

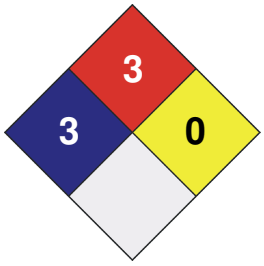
| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |

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

## 16. Other information

| LEGEND | |
|---|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

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**Other information** For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

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