Flowfresh SL

| | 1 |
|-----------------------------|----|
| Flowfresh SL SDS (CAN) - EN | 1 |
| Flowfresh A SDS (CAN) - EN | 16 |
| Flowfresh B SDS (CAN) - EN | 31 |



SAFETY DATA SHEET

1. Identification

Material name: Flowfresh SL Filler C-40# Bag Material: 100T SL C

Recommended use and restriction on use

Recommended use: Cement, Portland, chemicals **Restrictions on use:** Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco Canadian Sealants 220 Wicksteed Ave Toronto ON M4H 1G7 CA

Contact person: Telephone: Emergency telephone number:

EH&S Department 1-800-263-6046 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards

| Skin Corrosion/Irritation | Category 2 |
|---|--------------------------|
| Serious Eye Damage/Eye Irritation | Category 1 |
| Skin sensitizer | Category 1 |
| Carcinogenicity | Category 1A |
| Specific Target Organ Toxicity - Single Exposure | Category 3 ^{1.} |
| Specific Target Organ Toxicity - Repeated Exposure | Category 1 ^{2.} |

Target Organs

- 1. Respiratory tract irritation.
- 2. Lung

Unknown toxicity - Health

| Acute toxicity, oral | 20.3 % |
|-----------------------------------|---------|
| Acute toxicity, dermal | 93.66 % |
| Acute toxicity, inhalation, vapor | 100 % |
| Acute toxicity, inhalation, dust | 26.64 % |
| or mist | |

Label Elements

Hazard Symbol:





| Signal Word: | Danger |
|--|---|
| Hazard Statement: | Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. |
| Precautionary Statements | |
| Prevention: | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. 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. Use personal protective equipment as required. |
| Response: | IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing. Specific treatment (see supplemental first aid instructions on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. 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/doctor. IF exposed or concerned: Get medical advice/attention. |
| Storage: | Store in a well-ventilated place. Keep container tightly closed. Store locked up. |
| Disposal: | Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations. |
| Hazard(s) not otherwise classified (HNOC): | None. |

3. Composition/information on ingredients

Mixtures

| Chemical Identity | CAS number | Content in percent (%)* |
|--|------------|-------------------------|
| Crystalline Silica (Quartz)/ Silica Sand | 14808-60-7 | 50 - <100% |
| Portland cement | 65997-15-1 | 20 - <50% |



| Calcium hydroxide | 1305-62-0 5 - <10% | | | |
|---|--|--|--|--|
| * All concentrations are percent I | by weight unless ingredient is a gas. Gas concentrations are in percent by volume. | | | |
| . First-aid measures | | | | |
| Description of necessary first- | aid measures | | | |
| nhalation: | Move to fresh air. | | | |
| Skin Contact: | Get medical attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention. | | | |
| Eye contact: | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately. | | | |
| ngestion: | Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. | | | |
| Personal Protection for First- aid Responders: | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. | | | |
| Most important symptoms/effe | cts, acute and delayed | | | |
| Symptoms: | Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing. Respiratory tract irritation. | | | |
| Hazards: | No data available. | | | |
| ndication of immediate medica | al attention and special treatment needed | | | |
| | | | | |
| Treatment: | Symptoms may be delayed. | | | |
| Treatment: . Fire-fighting measures | Symptoms may be delayed. | | | |
| | Symptoms may be delayed. No unusual fire or explosion hazards noted. | | | |
| . Fire-fighting measures | No unusual fire or explosion hazards noted. | | | |
| . Fire-fighting measures General Fire Hazards: | No unusual fire or explosion hazards noted. | | | |
| . Fire-fighting measures General Fire Hazards: Suitable (and unsuitable) extin Suitable extinguishing | No unusual fire or explosion hazards noted. | | | |
| . Fire-fighting measures General Fire Hazards: Suitable (and unsuitable) extin Suitable extinguishing media: Unsuitable extinguishing | No unusual fire or explosion hazards noted. guishing media Use fire-extinguishing media appropriate for surrounding materials. | | | |
| . Fire-fighting measures General Fire Hazards: Suitable (and unsuitable) extine Suitable extinguishing media: Unsuitable extinguishing media: Specific hazards arising from the chemical: | No unusual fire or explosion hazards noted. guishing media Use fire-extinguishing media appropriate for surrounding materials. Do not use water jet as an extinguisher, as this will spread the fire. | | | |



| Special protective equipment for fire-fighters: | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. | |
|--|---|--|
| 6. Accidental release measure | s | |
| Personal precautions, protective equipment and emergency procedures: | See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. | |
| Accidental release measures: | In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. | |
| Methods and material for containment and cleaning up: | Collect spillage in containers, seal securely and deliver for disposal according to local regulations. | |
| Environmental Precautions: | Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. | |
| 7. Handling and storage | | |
| Handling | | |
| Technical measures (e.g. Local and general ventilation): | Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust. | |

Safe handling advice: Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes. Avoid contact with skin. Avoid contact with eyes, skin, and clothing.Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.

Contact avoidance measures: No data available.

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Wash contaminated clothing before reuse. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace.

Storage

| Safe storage conditions: | Store locked up. | |
|--------------------------|------------------|--|
| | | |

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Туре | Exposure Limit Values | Source |
|------------------------------|------|-----------------------|--|
| Crystalline Silica (Quartz)/ | TWA | 0.05 mg/m3 | US. OSHA Specifically Regulated Substances |



| Silica Sand - Respirable dust. | | | (29 CFR 1910.1001-1053), as amended (03 |
|---|--------------|--|---|
| | OSHA_AC T | 0.025 mg/m3 | 2016) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (03 2016) |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable dust. | PEL | 0.05 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016) |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable. | TWA | 2.4 millions of particles per cubic foot of air | US. OSHA Table Ź-3 (29 CFR 1910.1000), as amended (2000) |
| | TWA | 0.1 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000) |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction. | TWA | 0.025 mg/m3 | US. ACGIH Threshold Limit Values, as amended (02 2020) |
| Portland cement - Respirable fraction. | TWA | 1 mg/m3 | US. ACGIH Threshold Limit Values, as amended (2011) |
| Portland cement - Total dust. | PEL | 15 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| Portland cement - Respirable fraction. | PEL | 5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| Portland cement | TWA | 50 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000) |
| Calcium hydroxide | TWA | 5 mg/m3 | US. ACGIH Threshold Limit Values, as amended (2011) |
| Calcium hydroxide - Total dust. | PEL | 15 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| Calcium hydroxide - Respirable fraction. | PEL | 5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| Calcium hydroxide - Total dust. | TWA | 50 millions of particles per cubic foot of air | US. OSHA Table Ź-3 (29 CFR 1910.1000), as amended (09 2016) |
| | TWA | 15 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016) |
| Calcium hydroxide - Respirable fraction. | TWA | 5 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016) |
| | TWA | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016) |



| Chemical name | Туре | Exposure Limit Values | Source |
|---|------|-----------------------|---|
| Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction. | TWA | 0.10 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015) |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable dust. | TWA | 0.1 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017) |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction. | TWA | 0.025 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (06 2020) |
| Portland cement - Total dust. | TWA | 10 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017) |
| Portland cement - Respirable dust. | TWA | 5 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017) |
| Portland cement - Respirable. | TWA | 1 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (06 2017) |
| Portland cement - Respirable fraction. | TWA | 1 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017) |
| Calcium hydroxide | TWA | 5 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Calcium hydroxide | TWA | 5 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010) |
| Calcium hydroxide | TWA | 5 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017) |

Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

| Eye/face protection: | Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield. |
|-------------------------------------|--|
| Skin Protection Hand Protection: | Additional Information: Use suitable protective gloves if risk of skin contact. |
| Skin and Body Protection: | Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information. |
| Respiratory Protection: | In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor. |



Hygiene measures:

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Wash contaminated clothing before reuse. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

| Physical state: | solid |
|--|----------------------|
| Form: | Powder |
| Color: | Off-white |
| Odor: | Odorless |
| Odor threshold: | No data available. |
| pH: | No data available. |
| Melting point/freezing point: | No data available. |
| Initial boiling point and boiling range: | No data available. |
| Flash Point: | No data available. |
| Evaporation rate: | No data available. |
| Flammability (solid, gas): | No |
| Upper/lower limit on flammability or explo | osive limits |
| Flammability limit - upper (%): | No data available. |
| Flammability limit - lower (%): | No data available. |
| Explosive limit - upper: | No data available. |
| Explosive limit - lower: | No data available. |
| Vapor pressure: | No data available. |
| Vapor density: | No data available. |
| Relative density: | > 3.0 |
| Solubility(ies) | |
| Solubility in water: | Miscible with water. |
| Solubility (other): | No data available. |
| Partition coefficient (n-octanol/water): | No data available. |
| | |
| Auto-ignition temperature: | No data available. |
| Decomposition temperature: | No data available. |
| Viscosity: | No data available. |

10. Stability and reactivity

| Reactivity: | No data available. |
|--|---|
| Chemical Stability: | Material is stable under normal conditions. |
| Possibility of hazardous reactions: | No data available. |
| Conditions to avoid: | Avoid heat or contamination. |
| Incompatible Materials: | No data available. |
| | |



| Hazardous Decomposition Products: | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |
|--|--|
| 11. Toxicological information | |
| Information on likely routes of e Inhalation: | exposure In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes. |
| Skin Contact: | May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. |
| Eye contact: | Causes serious eye damage. |
| Ingestion: | May be harmful if swallowed. |
| Symptoms related to the physic | al, chemical and toxicological characteristics |
| Inhalation: | No data available. |
| Skin Contact: | No data available. |
| Eye contact: | No data available. |
| Ingestion: | No data available. |
| Information on toxicological eff | ects |
| Acute toxicity (list all possibl | e routes of exposure) |
| Oral Product: | ATEmix: 2,172.84 mg/kg |
| Dermal Product: | ATEmix: 2,500 mg/kg |
| Inhalation Product: | |
| Specified substance(s): Crystalline Silica (Quartz)/ Silica Sand | LC 50: > 5.0 mg/l |
| Repeated dose toxicity Product: | No data available. |
| Skin Corrosion/Irritation Product: | No data available. |
| Specified substance(s): | |



| Calcium hydroxide | in vivo (Rabbit): Irritating , 24 - 72 h |
|--|--|
| Serious Eye Damage/Eye Irritati Product: Specified substance(s): | on No data available. |
| Calcium hydroxide | Rabbit: Category 1 |
| Respiratory or Skin Sensitizatio Product: | n No data available. |
| Carcinogenicity Product: | No data available. |
| IARC Monographs on the Evaluation | ation of Carcinogenic Risks to Humans: |
| Crystalline Silica (Quartz)/ Silica Sand | Overall evaluation: Carcinogenic to humans. |
| | m (NTP) Report on Carcinogens: Known To Be Human Carcinogen. |
| (Quartz)/ Silica Sand | |
| US. OSHA Specifically Regulate Crystalline Silica | d Substances (29 CFR 1910.1001-1050), as amended: |
| (Quartz)/ Silica Sand | Cancer |
| Germ Cell Mutagenicity | |
| In vitro Product: | No data available. |
| In vivo Product: | No data available. |
| Reproductive toxicity Product: | No data available. |
| Specific Target Organ Toxicity - Product: | Single Exposure No data available. |
| Specific Target Organ Toxicity - Product: | Repeated Exposure No data available. |



Target Organs Specific Target Organ Toxicity - Single Exposure: Respiratory tract irritation. Specific Target Organ Toxicity - Repeated Exposure: Lung

| Aspiration Hazard | |
|-------------------|--|
| Product: | |

No data available.

Other effects:

No data available.

| 12. Ecological information | | |
|----------------------------|--|--|
| | | |

Ecotoxicity:

Acute hazards to the aquatic environment:

| Fish Product: | No data available. |
|---|--|
| Specified substance(s): Calcium hydroxide | LC 50 (Gambusia affinis, 96 h): >= 160 mg/l Experimental result, Key study |
| Aquatic Invertebrates Product: | No data available. |
| Specified substance(s): Calcium hydroxide | EC 50 (Daphnia magna, 48 h): 49.1 mg/l Experimental result, Key study |
| Chronic hazards to the aquatic | environment: |
| Fish Product: | No data available. |
| Aquatic Invertebrates Product: | No data available. |
| Toxicity to Aquatic Plants Product: | No data available. |
| Persistence and Degradability | |
| Biodegradation Product: | No data available. |
| BOD/COD Ratio Product: | No data available. |
| Bioaccumulative potential | |



| Bioconcentration Factor (B | CF) |
|-----------------------------------|---|
| Product: | No data available. |
| | |
| Partition Coefficient n-octanol / | water (log Kow) |
| Product: | No data available. |
| | |
| Mobility in soil: | No data available. |
| Other adverse effects: | No data available. |
| 13. Disposal considerations | |
| Disposal methods: | Dispass of wasta at an appropriate treatment and dispasal facility in |
| Disposal methods: | Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product |
| | characteristics at time of disposal. |
| Contaminated Packaging: | No data available. |
| | |
| 14. Transport information | |

TDG:

Not Regulated

CFR / DOT:

Not Regulated

IMDG:

Not Regulated

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.



US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

<u>Crystalline Silica</u> (Quartz)/ Silica Sand OSHA hazard(s)

kidney effects lung effects immune system effects Cancer

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Skin Corrosion or Irritation Serious eye damage or eye irritation Respiratory or Skin Sensitization Carcinogenicity Specific target organ toxicity (single or repeated exposure)

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

Not regulated.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



WARNING

Cancer - www.P65Warnings.ca.gov

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Crystalline Silica (Quartz)/ Silica Sand Portland cement Calcium hydroxide Glass, oxide, silver phosphate



US. Massachusetts RTK - Substance List

<u>Chemical Identity</u> Crystalline Silica (Quartz)/ Silica Sand Portland cement Calcium hydroxide

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity Crystalline Silica (Quartz)/ Silica Sand

Portland cement Calcium hydroxide

US. Rhode Island RTK

Chemical Identity

Crystalline Silica (Quartz)/ Silica Sand Portland cement Calcium hydroxide

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

VOC:

| Regulatory VOC (less water and exempt solvent) | : | 0 g/l |
|--|---|--------|
| VOC Method 310 | : | 0.00 % |



Version: 1.0 Revision Date: 09/15/2021

| Inventory Status: Australia AICS: | One or more components in this product are not listed on or exempt from the Inventory. |
|--|--|
| Canada DSL Inventory List: | One or more components in this product are not listed on or exempt from the Inventory. |
| Canada NDSL Inventory: | One or more components in this product are not listed on or exempt from the Inventory. |
| Ontario Inventory: | One or more components in this product are not listed on or exempt from the Inventory. |
| China Inv. Existing Chemical Substances: | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan (ENCS) List: | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan ISHL Listing: | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan Pharmacopoeia Listing: | One or more components in this product are not listed on or exempt from the Inventory. |
| Korea Existing Chemicals Inv. (KECI): | One or more components in this product are not listed on or exempt from the Inventory. |
| Mexico INSQ: | One or more components in this product are not listed on or exempt from the Inventory. |
| New Zealand Inventory of Chemicals: | All components in this product are listed on or exempt from the Inventory. |
| Philippines PICCS: | One or more components in this product are not listed on or exempt from the Inventory. |
| Taiwan Chemical Substance Inventory: | One or more components in this |



| | product are not listed on or exempt from the Inventory. |
|------------------------|--|
| US TSCA Inventory: | All components in this product are listed on or exempt from the Inventory. |
| EINECS, ELINCS or NLP: | One or more components in this product are not listed on or exempt from the Inventory. |

16.Other information, including date of preparation or last revision

| Revision Date: | 09/15/2021 |
|----------------------|---|
| Version #: | 1.0 |
| Further Information: | No data available. |
| Disclaimer: | For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. |



Version: 2.0 Revision Date: 02/04/2019

SAFETY DATA SHEET

1. Identification

Material name: TREM Flowfresh Single Pack - Base A - 5# Material: 101T FRESH A SNGL

Recommended use and restriction on use

Recommended use: Coatings Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco Canadian Sealants 220 Wicksteed Ave Toronto ON M4H 1G7 CA

Contact person: Telephone: Emergency telephone number:

EH&S Department 1-800-263-6046 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards

| Skin Corrosion/Irritation | Category 2 |
|-----------------------------------|-------------|
| Serious Eye Damage/Eye Irritation | Category 2A |
| Skin sensitizer | Category 1 |

Unknown toxicity - Health

| Acute toxicity, oral | 45.99 % |
|-----------------------------------|---------|
| Acute toxicity, dermal | 48.77 % |
| Acute toxicity, inhalation, vapor | 73.5 % |
| Acute toxicity, inhalation, dust | 73.5 % |
| or mist | |

Label Elements

Hazard Symbol:



Signal Word:

Warning



| Hazard Statement: | Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. |
|--|---|
| Precautionary Statements | |
| Prevention: | Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. |
| Response: | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water/ If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse. |
| Disposal: | Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |
| Hazard(s) not otherwise classified (HNOC): | None. |

3. Composition/information on ingredients

Mixtures

| Chemical Identity | CAS number | Content in percent (%)* | |
|-------------------------------|------------|-------------------------|--|
| Low acid filtered neutral oil | 8001-79-4 | 20 - <50% | |
| Alkyl glycidyl ether | 68609-97-2 | 1 - <5% | |
| Ethylene glycol | 107-21-1 | 1 - <5% | |
| Triethanolamine | 102-71-6 | 0.1 - <1% | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.1 - <1% | |

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

4. First-aid measures

| Ingestion: | Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. |
|---------------|--|
| Inhalation: | Move to fresh air. |
| Skin Contact: | Get medical attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention. |
| Eye contact: | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. |



Most important symptoms/effects, acute and delayed

| Symptoms: | Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. | | | |
|--|---|--|--|--|
| Indication of immediate medical attention and special treatment needed | | | | |
| Treatment: | Get medical attention if symptoms occur. | | | |
| 5. Fire-fighting measures | | | | |
| General Fire Hazards: | No unusual fire or explosion hazards noted. | | | |
| Suitable (and unsuitable) extingu | uishing media | | | |
| Suitable extinguishing media: | Use fire-extinguishing media appropriate for surrounding materials. | | | |
| 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. | | | |
| Special protective equipment an | d precautions for firefighters | | | |
| Special fire fighting procedures: | No data available. | | | |
| Special protective equipment for fire-fighters: | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. | | | |
| 6. Accidental release measure | S | | | |
| Personal precautions, protective equipment and emergency procedures: | See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. | | | |
| Methods and material for containment and cleaning up: | Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. | | | |
| Notification Procedures: | In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. | | | |
| Environmental Precautions: | Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. | | | |



7. Handling and storage

| Precautions for safe handling: | Avoid contact with eyes. Wash hands thoroughly after handling. Avoid contact with skin. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
|---|---|
| Conditions for safe storage, including any incompatibilities: | Store away from incompatible materials. Store in original tightly closed container. |

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Туре | Exposure Lim | it Values | Source |
|---------------------------------------|---------|--------------|-----------|--|
| Ethylene glycol - Aerosol, inhalable. | STEL | | 10 mg/m3 | US. ACGIH Threshold Limit Values (03 2017) |
| Ethylene glycol - Vapor fraction | TWA | 25 ppm | | US. ACGIH Threshold Limit Values (03 2017) |
| | STEL | 50 ppm | | US. ACGIH Threshold Limit Values (03 2017) |
| Triethanolamine | ST ESL | | 50 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011) |
| | AN ESL | | 5 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011) |
| | TWA PEL | | 5 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) |
| | TWA | | 5 mg/m3 | US. ACGIH Threshold Limit Values (2011) |
| 1,2,4-Trimethylbenzene | REL | 25 ppm | 125 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| | TWA | 25 ppm | 125 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 25 ppm | 125 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) |
| | AN ESL | | 25 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011) |
| | ST ESL | | 140 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013) |
| | ST ESL | | 700 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013) |
| | AN ESL | | 125 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011) |
| | TWA PEL | 25 ppm | 125 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) |
| | TWA | 25 ppm | | US. ACGIH Threshold Limit Values (2011) |



| Chemical name | Туре | Exposure Lim | it Values | Source |
|-------------------------------------|---------|--------------|-----------|--|
| Ethylene glycol - Vapor. | CEILING | 50 ppm | | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Ethylene glycol - Aerosol. | CEILING | | 100 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Ethylene glycol - Particulate. | TWA | | 10 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | STEL | | 20 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Ethylene glycol - Aerosol. | CEV | | 100 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Ethylene glycol - Vapor and mist | CEILING | 50 ppm | 127 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) |
| Triethanolamine | TWA | | 5 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009) |
| Triethanolamine | TWA | | 5 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Triethanolamine | TWA | 0.5 ppm | 3.1 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Triethanolamine | TWA | | 5 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) |
| 1,2,4-Trimethylbenzene | TWA | 25 ppm | 123 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009) |
| 1,2,4-Trimethylbenzene | TWA | 25 ppm | | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| 1,2,4-Trimethylbenzene | TWA | 25 ppm | | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| 1,2,4-Trimethylbenzene | TWA | 25 ppm | 123 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) |
| 1-Methoxy-2-propanol acetate | TWA | 50 ppm | | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | STEL | 75 ppm | | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |



| 1-Methoxy-2-propanol acetate | TWA | 50 ppm | 270 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
|--|------|---------|------------|--|
| Diethanolamine | TWA | | 2 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
| Diethanolamine - Inhalable fraction and vapor. | TWA | | 1 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Diethanolamine | TWA | 3 ppm | 13 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) |
| Cumene | STEL | 75 ppm | | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | TWA | 25 ppm | | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Cumene | TWA | 50 ppm | | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Cumene | TWA | 50 ppm | 246 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) |
| Benzene | STEL | 2.5 ppm | | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | TWA | 0.5 ppm | | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Benzene | TWA | 0.5 ppm | | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015) |
| | STEL | 2.5 ppm | | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015) |
| Benzene | TWA | 1 ppm | 3 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) |
| | STEL | 5 ppm | 15.5 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) |
| Toluene | TWA | 20 ppm | | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Toluene | TWA | 20 ppm | | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Toluene | TWA | 50 ppm | 188 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) |

Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.



Individual protection measures, such as personal protective equipment

| General information: | Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) 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. |
|-------------------------------------|--|
| Eye/face protection: | Wear safety glasses with side shields (or goggles). |
| Skin Protection Hand Protection: | Use suitable protective gloves if risk of skin contact. |
| Other: | Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information. |
| Respiratory Protection: | In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor. |
| Hygiene measures: | Avoid contact with eyes. Observe good industrial hygiene practices. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. |

9. Physical and chemical properties

Appearance

| Physical state: | liquid |
|--|---|
| Form: | liquid |
| Color: | White |
| Odor: | Mild |
| Odor threshold: | No data available. |
| pH: | 9.4 |
| Melting point/freezing point: | No data available. |
| Initial boiling point and boiling range: | > 100 °C > 212 °F |
| Flash Point: | No data available. |
| Evaporation rate: | Slower than Ether |
| Flammability (solid, gas): | No |
| Upper/lower limit on flammability or explosi | ve limits |
| Flammability limit - upper (%): | No data available. |
| Flammability limit - lower (%): | No data available. |
| Explosive limit - upper (%): | No data available. |
| Explosive limit - lower (%): | No data available. |
| Vapor pressure: | No data available. |
| Vapor density: | Vapors are heavier than air and may travel along the floor and in the bottom of containers. |
| Relative density: | 1.01 |
| | |



| Solubility(ies) | | |
|--|---|--|
| Solubility in water: | Soluble | |
| Solubility (other): | No data available. | |
| Partition coefficient (n-octanol/ | /water): No data available. | |
| Auto-ignition temperature: | No data available. | |
| Decomposition temperature: | No data available. | |
| Viscosity: | No data available. | |
| 10. Stability and reactivity | | |
| Reactivity: | No data available. | |
| Chemical Stability: | Material is stable under normal conditions. | |
| Possibility of hazardous reactions: | No data available. | |
| Conditions to avoid: | Avoid heat or contamination. | |
| Incompatible Materials: | Strong acids. Strong bases. | |
| Hazardous Decomposition Products: | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. | |
| 11. Toxicological information | 1 | |

Information on likely routes of exposure

| nd |
|----|
| |
| |
| |
|). |

Symptoms related to the physical, chemical and toxicological characteristics

| Inhalation: | No data available. |
|---------------|--------------------|
| Skin Contact: | No data available. |
| Eye contact: | No data available. |
| Ingestion: | No data available. |

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:

Not classified for acute toxicity based on available data.



| Dermal Product: | Not classified for acute toxicity based on available data. | | |
|---|--|--|--|
| Inhalation Product: | Not classified for acute toxicity based on available data. | | |
| Repeated dose toxicity Product: | No data available. | | |
| Skin Corrosion/Irritation Product: | No data available. | | |
| Serious Eye Damage/Eye Irritatio Product: | on No data available. | | |
| Respiratory or Skin Sensitization Product: | n No data available. | | |
| Carcinogenicity Product: | No data available. | | |
| IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified | | | |
| US. National Toxicology Program No carcinogenic components | | | |
| US. OSHA Specifically Regulate No carcinogenic components | d Substances (29 CFR 1910.1001-1050): s identified | | |
| Germ Cell Mutagenicity | | | |
| In vitro Product: | No data available. | | |
| In vivo Product: | No data available. | | |
| Reproductive toxicity Product: | No data available. | | |
| Specific Target Organ Toxicity - Product: | Single Exposure No data available. | | |
| Specific Target Organ Toxicity - Product: | Repeated Exposure No data available. | | |
| Aspiration Hazard Product: | No data available. | | |



Other effects:

Ecotoxicity:

No data available.

12. Ecological information

| Acute hazards to the aquation | c environment: |
|---|---|
| Fish Product: | No data available. |
| Aquatic Invertebrates Product: | No data available. |
| Chronic hazards to the aqua | atic environment: |
| Fish Product: | No data available. |
| Aquatic Invertebrates Product: | No data available. |
| Toxicity to Aquatic Plants Product: | No data available. |
| Persistence and Degradability | |
| Biodegradation Product: | No data available. |
| BOD/COD Ratio Product: | No data available. |
| Bioaccumulative potential Bioconcentration Factor (I | BCE) |
| Product: | No data available. |
| Partition Coefficient n-octanol Product: | / water (log Kow) No data available. |
| | |
| Mobility in soil: | No data available. |
| Other adverse effects: | No data available. |
| 13. Disposal considerations | |
| Disposal instructions: | Dispose of waste at an appropriate treatment and disposal facility in |

accordance with applicable laws and regulations, and product

characteristics at time of disposal.



Contaminated Packaging: No data available.

14. Transport information

TDG:

Not Regulated

CFR / DOT:

Not Regulated

IMDG:

Not Regulated

15. Regulatory information

US Federal Regulations

Benzene

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Chemical Identity OSHA hazard(s)

Blood respiratory tract irritation Central nervous system Flammability Cancer Skin Aspiration Eye

CERCLA Hazardous Substance List (40 CFR 302.4):

| Chemical Identity | Reportable quantity |
|-------------------|---------------------|
| Ethylene glycol | 5000 lbs. |
| Diethanolamine | 100 lbs. |
| Cumene | 5000 lbs. |
| Benzene | 10 lbs. |
| Toluene | 1000 lbs. |
| | |

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Skin Corrosion or Irritation Serious eye damage or eye irritation Respiratory or Skin Sensitization



SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

| Chemical Identity | Reportable quantity |
|-------------------|---------------------|
| Ethylene glycol | 5000 lbs. |
| Diethanolamine | 100 lbs. |
| Cumene | 5000 lbs. |
| Benzene | 10 lbs. |
| Toluene | 1000 lbs. |

SARA 311/312 Hazardous Chemical

None present or none present in regulated quantities.

| Chemical Identity | Threshold Planning Quantity |
|-------------------------------|-----------------------------|
| Low acid filtered neutral oil | 10000 lbs |
| Alkyl glycidyl ether | 10000 lbs |
| Ethylene glycol | 10000 lbs |
| Triethanolamine | 10000 lbs |
| 1,2,4-Trimethylbenzene | 10000 lbs |

SARA 313 (TRI Reporting)

Chemical Identity

Ethylene glycol

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

US. New Jersey Worker and Community Right-to-Know Act

<u>Chemical Identity</u> Pine oil Ethylene glycol

US. Massachusetts RTK - Substance List

<u>Chemical Identity</u> Ethylene glycol Benzene

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Ethylene glycol Triethylene glycol



US. Rhode Island RTK

Chemical Identity

Ethylene glycol Triethylene glycol

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

VOC:

| Regulatory VOC (less water and exempt solvent) | : | 37 g/l |
|--|---|--------|
| VOC Method 310 | : | 2.71 % |



| Inventory Status: | |
|-------------------|--|
| Australia AICS: | |

Canada DSL Inventory List:

EINECS, ELINCS or NLP:

Japan (ENCS) List:

China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI):

Canada NDSL Inventory:

Philippines PICCS:

US TSCA Inventory:

New Zealand Inventory of Chemicals:

Japan ISHL Listing:

Japan Pharmacopoeia Listing:

Mexico INSQ:

Ontario Inventory:

Taiwan Chemical Substance Inventory:

One or more components in this product are not listed on or exempt from the Inventory.

All components in this product are listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

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One or more components in this product are not listed on or exempt from the Inventory.



16.Other information, including date of preparation or last revision

| Revision Date: | 02/04/2019 |
|----------------------|--|
| Version #: | 2.0 |
| Further Information: | No data available. |
| Disclaimer: | For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. |



Version: 2.0 Revision Date: 11/27/2018

SAFETY DATA SHEET

1. Identification

Material name: TREM Flowfresh Sngle Pack-Hardener B- 5# Material: 101T FRESH B SNGL

Recommended use and restriction on use

Recommended use: Curative Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco Canadian Sealants 220 Wicksteed Ave Toronto ON M4H 1G7 CA

Contact person: Telephone: Emergency telephone number:

EH&S Department 1-800-263-6046 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards

| Acute toxicity (Inhalation - dust and mist) | Category 4 |
|---|--------------------------|
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2A |
| Respiratory sensitizer | Category 1 |
| Skin sensitizer | Category 1 |
| Carcinogenicity | Category 2 |
| Specific Target Organ Toxicity - Single Exposure | Category 3 ^{1.} |
| Specific Target Organ Toxicity - Repeated Exposure | Category 1 |

Target Organs

1. Respiratory tract irritation.

Unknown toxicity - Health

| Acute toxicity, oral | 0 % |
|-----------------------------------|-------|
| Acute toxicity, dermal | 0 % |
| Acute toxicity, inhalation, vapor | 100 % |
| Acute toxicity, inhalation, dust | 50 % |
| or mist | |

Label Elements



Hazard Symbol:

| Signal Word: | Danger |
|--|--|
| Hazard Statement: | Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. |
| Precautionary Statements | |
| Prevention: | Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. |
| Response: | IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water/ If skin irritation or rash occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Wash contaminated clothing before reuse. |
| Storage: | Store locked up. Store in a well-ventilated place. Keep container tightly closed. |
| Disposal: | Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |
| Hazard(s) not otherwise classified (HNOC): | None. |

3. Composition/information on ingredients



Mixtures

| Chemical Identity | CAS number | Content in percent (%)* |
|--|------------|-------------------------|
| Benzene, 1,1'-methylenebis[4- isocyanato- | 101-68-8 | 50 - <100% |
| Polymeric MDI | 9016-87-9 | 20 - <50% |
| Diphenylmethane-2,4'- diisocyanate | 5873-54-1 | 10 - <20% |

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

4. First-aid measures

| Ingestion: | Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. |
|--|--|
| Inhalation: | Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen. |
| Skin Contact: | Get medical attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention. |
| Eye contact: | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. |
| Most important symptoms/effec | ts, acute and delayed |
| Symptoms: | Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Respiratory tract irritation. |
| Indication of immediate medical a | attention and special treatment needed |
| | |
| Treatment: | Symptoms may be delayed. |
| Treatment: 5. Fire-fighting measures | Symptoms may be delayed. |
| | Symptoms may be delayed. No unusual fire or explosion hazards noted. |
| 5. Fire-fighting measures | No unusual fire or explosion hazards noted. |
| 5. Fire-fighting measures General Fire Hazards: | No unusual fire or explosion hazards noted. |
| 5. Fire-fighting measures General Fire Hazards: Suitable (and unsuitable) exting Suitable extinguishing | No unusual fire or explosion hazards noted. |
| 5. Fire-fighting measures General Fire Hazards: Suitable (and unsuitable) exting Suitable extinguishing media: Unsuitable extinguishing | No unusual fire or explosion hazards noted. uishing media Use fire-extinguishing media appropriate for surrounding materials. |



| Special fire fighting procedures: | No data available. |
|--|--|
| Special protective equipment for fire-fighters: | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| 6. Accidental release measures | 5 |
| Personal precautions, protective equipment and emergency procedures: | Ventilate closed spaces before entering them. Evacuate area. See Section 8 of the SDS for Personal Protective Equipment. Keep upwind. Keep unauthorized personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. |
| Methods and material for containment and cleaning up: | Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. |
| Notification Procedures: | In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. |
| Environmental Precautions: | Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. |
| 7. Handling and storage | |
| Precautions for safe handling: | Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes, skin, and clothing. |
| Conditions for safe storage, including any incompatibilities: | Store locked up. |

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Туре | Exposure Limit | t Values | Source |
|--|---------|----------------|-----------|--|
| Benzene, 1,1'- methylenebis[4-isocyanato- | TWA | 0.005 ppm | | US. ACGIH Threshold Limit Values (2011) |
| | Ceiling | 0.02 ppm | 0.2 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |

| Chemical name | Туре | Exposure Limit Values | Source |
|--|---------|-----------------------|--|
| Benzene, 1,1'- methylenebis[4-isocyanato- | CEILING | 0.01 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | TWA | 0.005 ppm | Canada. British Columbia OELs. (Occupational |



| | | | Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|--|---------|-----------------------|--|
| Benzene, 1,1'- methylenebis[4-isocyanato- | TWA | 0.005 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015) |
| | CEV | 0.02 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015) |
| Benzene, 1,1'- methylenebis[4-isocyanato- | TWA | 0.005 ppm 0.051 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) |
| Polymeric MDI | TWA | 0.005 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | CEILING | 0.01 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Diphenylmethane-2,4'- diisocyanate | TWA | 0.005 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | CEILING | 0.01 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |

Appropriate Engineering Controls Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

| General information: | Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) 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. |
|-------------------------------------|---|
| Eye/face protection: | Wear safety glasses with side shields (or goggles). |
| Skin Protection Hand Protection: | Use suitable protective gloves if risk of skin contact. |
| Other: | Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information. |
| Respiratory Protection: | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information. |



Hygiene measures:

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. Wash contaminated clothing before reuse. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

| Appearance | |
|--|---|
| Physical state: | liquid |
| Form: | liquid |
| Color: | Brown |
| Odor: | Mild pungent |
| Odor threshold: | No data available. |
| pH: | No data available. |
| Melting point/freezing point: | No data available. |
| Initial boiling point and boiling range: | 300 °C 572 °F |
| Flash Point: | 220 °C 428 °F |
| Evaporation rate: | Slower than Ether |
| Flammability (solid, gas): | No |
| Upper/lower limit on flammability or explo | osive limits |
| Flammability limit - upper (%): | No data available. |
| Flammability limit - lower (%): | No data available. |
| Explosive limit - upper (%): | No data available. |
| Explosive limit - lower (%): | No data available. |
| Vapor pressure: | No data available. |
| Vapor density: | Vapors are heavier than air and may travel along the floor and in the bottom of containers. |
| Relative density: | 1.24 |
| Solubility(ies) | |
| Solubility in water: | Practically Insoluble |
| Solubility (other): | No data available. |
| Partition coefficient (n-octanol/water): | No data available. |
| Auto-ignition temperature: | No data available. |
| Decomposition temperature: | No data available. |
| Viscosity: | No data available. |

10. Stability and reactivity

| Reactivity: | No data available. |
|--|---|
| Chemical Stability: | Material is stable under normal conditions. |
| Possibility of hazardous reactions: | No data available. |
| Conditions to avoid: | Avoid heat or contamination. |



| Incompatible Materials: | Avoid contact with acids. |
|--------------------------------------|---|
| Hazardous Decomposition Products: | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

11. Toxicological information

| Information on likely routes of exposure Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat a mucus membranes. | | |
|--|--|--|
| Skin Contact: | Causes skin irritation. May cause an allergic skin reaction. | |
| Eye contact: | Causes serious eye irritation. | |
| Ingestion: | May be harmful if swallowed. | |

Symptoms related to the physical, chemical and toxicological characteristics

| Inhalation: | No data available. |
|---------------|--------------------|
| Skin Contact: | No data available. |
| Eye contact: | No data available. |
| Ingestion: | No data available. |

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

| Oral Product: | Not classified for acute toxicity based on available data. |
|---|--|
| Specified substance(s): Benzene, 1,1'- methylenebis[4- isocyanato- | LD 50 (Rat): > 4,700 mg/kg |
| Polymeric MDI | LD 50 (Rat): > 2,000 mg/kg |
| Diphenylmethane-2,4'- diisocyanate | LD 50 (Rat): > 10,000 mg/kg |
| Dermal Product: | Not classified for acute toxicity based on available data. |



| Specified substance(s): Benzene, 1,1'- methylenebis[4- isocyanato- | LD 50 (Rabbit): > 9,400 mg/kg LD 50 (Rabbit): 10,000 mg/kg | |
|---|--|--|
| Polymeric MDI | LD 50 (Rabbit): > 9,400 mg/kg | |
| Diphenylmethane-2,4'- diisocyanate | LD 50 (Rabbit): > 9,400 mg/kg | |
| Inhalation Product: | ATEmix: 1.5 mg/l | |
| Repeated dose toxicity Product: | No data available. | |
| Specified substance(s): Benzene, 1,1'- methylenebis[4- isocyanato- | LOAEL (Rat, Inhalation - dust and mist): 0.001 mg/l (Target Organ(s): Respiratory system) | |
| Skin Corrosion/Irritation Product: | No data available. | |
| Specified substance(s): Benzene, 1,1'- methylenebis[4- isocyanato- | in vivo (Rabbit): Irritating Read-across based on grouping of substances (category approach), Key study | |
| Diphenylmethane-2,4'- diisocyanate | in vivo (Rabbit): Irritating Read-across based on grouping of substances (category approach), Key study | |
| Serious Eye Damage/Eye Irritation Product: No data available. | | |
| Respiratory or Skin Sensitizatio Product: | n May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause sensitization by inhalation. | |
| Carcinogenicity Product: | Suspected of causing cancer. | |
| IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified | | |
| US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified | | |



US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

| In vitro Product: | No data available. | |
|---|--|--|
| In vivo Product: | No data available. | |
| Reproductive toxicity Product: | No data available. | |
| Specific Target Organ Toxicity - | Single Exposure | |
| Product: | No data available. | |
| Specified substance(s): Benzene, 1,1'- methylenebis[4- isocyanato- | Inhalation - dust and mist: Respiratory system - Category 3 with respiratory tract irritation. | |
| Polymeric MDI | Inhalation - dust and mist: Respiratory system - Category 3 with respiratory tract irritation. | |
| Specific Target Organ Toxicity - Repeated Exposure Product: No data available. | | |
| Target Organs Specific Target Organ Toxici | ty - Single Exposure: Respiratory tract irritation. | |
| Aspiration Hazard Product: | No data available. | |

Other effects:

No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

| Fish | |
|----------|--------------------|
| Product: | No data available. |

| Aquatic Invertebrates | |
|-----------------------|--------------------|
| Product: | No data available. |



Chronic hazards to the aquatic environment:

| Fish Product: | No data available. | | |
|---|---|--|--|
| Aquatic Invertebrates Product: | No data available. | | |
| Toxicity to Aquatic Plants Product: | No data available. | | |
| Persistence and Degradability | | | |
| Biodegradation Product: | No data available. | | |
| BOD/COD Ratio Product: | No data available. | | |
| Bioaccumulative potential Bioconcentration Factor (BCF) Product: No data available. | | | |
| Partition Coefficient n-octanol / water (log Kow) Product: No data available. | | | |
| Mobility in soil: | No data available. | | |
| Other adverse effects: | No data available. | | |
| 13. Disposal considerations | | | |
| Disposal instructions: | Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. | | |
| Contaminated Packaging: | No data available. | | |
| 14. Transport information | | | |
| TDC. | | | |

TDG:

Not Regulated

CFR / DOT:



Not Regulated

IMDG:

Not Regulated

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

| Chemical Identity | Reportable quantity |
|-------------------|---------------------|
| Benzene, 1,1'- | 5000 lbs. |
| methylenebis[4- | |
| isocyanato- | |

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Acute toxicity (any route or exposure) Skin Corrosion or Irritation Serious eye damage or eye irritation Respiratory or Skin Sensitization Carcinogenicity Specific target organ toxicity (single or repeated exposure)

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

| Chemical Identity | - | Reportable quantity |
|-------------------|-------|---------------------|
| Benzene, | 1,1'- | 5000 lbs. |
| methylenebis[4- | | |
| isocyanato- | | |



SARA 311/312 Hazardous Chemical

| Chemical Identity | Threshold Planning Quantity |
|-----------------------|-----------------------------|
| Benzene, 1,1'- | 10000 lbs |
| methylenebis[4- | |
| isocyanato- | |
| Polymeric MDI | 10000 lbs |
| Diphenylmethane-2,4'- | 10000 lbs |
| diisocyanate | |

SARA 313 (TRI Reporting)

Chemical Identity Benzene, 1,1'methylenebis[4isocyanato-Polymeric MDI

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Benzene, 1,1'-methylenebis[4-isocyanato-Polymeric MDI Diphenylmethane-2,4'-diisocyanate

US. Massachusetts RTK - Substance List

Chemical Identity

Benzene, 1,1'-methylenebis[4-isocyanato-

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Benzene, 1,1'-methylenebis[4-isocyanato-

US. Rhode Island RTK

Chemical Identity

Benzene, 1,1'-methylenebis[4-isocyanato-

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention



Not applicable

Kyoto protocol

Not applicable

VOC:

| Regulatory VOC (less water and exempt solvent) | : | 0 g/l |
|--|---|---------|
| VOC Method 310 | : | 10.00 % |



Inventory Status:

Australia AICS:

Canada DSL Inventory List:

EINECS, ELINCS or NLP:

Japan (ENCS) List:

China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI):

Canada NDSL Inventory:

Philippines PICCS:

US TSCA Inventory:

New Zealand Inventory of Chemicals:

Japan ISHL Listing:

Japan Pharmacopoeia Listing:

Mexico INSQ:

Ontario Inventory:

Taiwan Chemical Substance Inventory:

All components in this product are listed on or exempt from the Inventory.

All components in this product are listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

All components in this product are listed on or exempt from the Inventory.

All components in this product are listed on or exempt from the Inventory.

All components in this product are listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

All components in this product are listed on or exempt from the Inventory.

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One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.



16.Other information, including date of preparation or last revision

| Revision Date: | 11/27/2018 |
|----------------------|--|
| Version #: | 2.0 |
| Further Information: | No data available. |
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