

SAFETY DATA SHEET

1. Identification

Material name: VULKEM 45 SSL BUFF QT CTG
Material: 445707A 333

Recommended use and restriction on use

Recommended use: Sealant
Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants
3735 Green Road
Cleveland OH 44122
US

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| Contact person: | EH&S Department |
| Telephone: | 216-292-5000 |
| Emergency telephone number: | 1-800-424-9300 (US); 1-613-996-6666 (Canada) |

2. Hazard(s) identification

Hazard Classification

Health Hazards

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|------------------------|-------------|
| Respiratory sensitizer | Category 1 |
| Skin sensitizer | Category 1 |
| Carcinogenicity | Category 1A |

Unknown toxicity - Health

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| Acute toxicity, oral | 57.29 % |
| Acute toxicity, dermal | 62.55 % |
| Acute toxicity, inhalation, vapor | 99.85 % |
| Acute toxicity, inhalation, dust or mist | 92.55 % |

Environmental Hazards

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| Acute hazards to the aquatic environment | Category 2 |
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Unknown toxicity - Environment

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| Acute hazards to the aquatic environment | 89.58 % |
| Chronic hazards to the aquatic environment | 100 % |

Label Elements

Hazard Symbol:



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| Signal Word: | Danger |
| Hazard Statement: | May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause cancer. Toxic to aquatic life. |
| Precautionary Statement: | |
| Prevention: | Avoid breathing dust/fume/gas/mist/vapors/spray. [In case of inadequate ventilation] wear respiratory protection. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. |
| Response: | If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Specific treatment (see this label). Wash contaminated clothing before reuse. |
| Storage: | Store locked up. |
| 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. |
| Other hazards which do not result in GHS classification: | None. |

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| 3. Composition/information on ingredients |
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Mixtures

| Chemical Identity | CAS number | Content in percent (%)* |
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| Calcium Carbonate (Limestone) | 1317-65-3 | 15 - 40% |
| Polyvinyl chloride | 9002-86-2 | 15 - 40% |
| Petroleum distillates | 64742-47-8 | 5 - 10% |
| Titanium dioxide | 13463-67-7 | 1 - 5% |
| Calcium oxide | 1305-78-8 | 1 - 5% |
| Xylene | 1330-20-7 | 1 - 5% |
| Isophorone Diisocyanate | 4098-71-9 | 0.1 - 1% |
| Ethylbenzene | 100-41-4 | 0.1 - 1% |
| Hydrotreated heavy naphthenic distillate | 64742-52-5 | 0.1 - 1% |
| Nonane | 111-84-2 | 0.1 - 1% |
| Aluminum oxide | 1344-28-1 | 0.1 - 1% |

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

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| 4. First-aid measures |
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| 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: | If skin irritation occurs: Get medical advice/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: | Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention. |

Most important symptoms/effects, acute and delayed

Symptoms: May cause skin and eye irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing 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 and 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 measures

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:

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:

Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe 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 breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. 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.

Conditions for safe storage, including any incompatibilities:

Store locked up.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | type | Exposure Limit Values | Source |
|--|-----------|--------------------------|--|
| Calcium Carbonate (Limestone) - Total dust. | PEL | 15 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Calcium Carbonate (Limestone) - Respirable fraction. | PEL | 5 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Polyvinyl chloride - Respirable fraction. | TWA | 1 mg/m ³ | US. ACGIH Threshold Limit Values (2011) |
| Polyvinyl chloride - as vinyl chloride monomer | TWA | 1 ppm | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) (02 2006) |
| | STEL | 5 ppm | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) (02 2006) |
| | OSHA_A CT | 0.5 ppm | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) (02 2006) |
| Polyvinyl chloride - Respirable fraction. | PEL | 5 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Polyvinyl chloride - Total dust. | PEL | 15 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | 50 millions of particles | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |

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| | | per cubic foot of air | |
| Polyvinyl chloride - Respirable fraction. | TWA | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |
| Polyvinyl chloride - Total dust. | TWA | 15 mg/m ³ | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |
| Polyvinyl chloride - Respirable fraction. | TWA | 5 mg/m ³ | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000) |
| Petroleum distillates - Non-aerosol. - as total hydrocarbon vapor | TWA | 200 mg/m ³ | US. ACGIH Threshold Limit Values (2011) |
| | TWA | 200 mg/m ³ | US. ACGIH Threshold Limit Values (2011) |
| Titanium dioxide | TWA | 10 mg/m ³ | US. ACGIH Threshold Limit Values (2011) |
| Titanium dioxide - Total dust. | PEL | 15 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Calcium oxide | TWA | 2 mg/m ³ | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 5 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Xylene | TWA | 100 ppm | US. ACGIH Threshold Limit Values (2011) |
| | STEL | 150 ppm | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 100 ppm 435 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Isophorone Diisocyanate | TWA | 0.005 ppm | US. ACGIH Threshold Limit Values (2011) |
| Ethylbenzene | TWA | 20 ppm | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 100 ppm 435 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Hydrotreated heavy naphthenic distillate - Inhalable fraction. | TWA | 5 mg/m ³ | US. ACGIH Threshold Limit Values (03 2014) |
| Hydrotreated heavy naphthenic distillate | PEL | 500 ppm 2,000 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Hydrotreated heavy naphthenic distillate - Mist. | PEL | 5 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Nonane | TWA | 200 ppm | US. ACGIH Threshold Limit Values (02 2012) |
| Aluminum oxide - Respirable fraction. | TWA | 1 mg/m ³ | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 5 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Aluminum oxide - Total | PEL | 15 mg/m ³ | US. OSHA Table Z-1 Limits for Air |

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| dust. | | | Contaminants (29 CFR 1910.1000) (02 2006) |
|-------|--|--|--|

| Chemical name | type | Exposure Limit Values | Source |
|---|-------|-----------------------|---|
| Calcium Carbonate (Limestone) - Total dust. | STEL | 20 mg/m ³ | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | TWA | 10 mg/m ³ | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Calcium Carbonate (Limestone) - Respirable fraction. | TWA | 3 mg/m ³ | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Calcium Carbonate (Limestone) - Total dust. | TWA | 10 mg/m ³ | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| Polyvinyl chloride - Respirable. | TWA | 1 mg/m ³ | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Polyvinyl chloride - Respirable fraction. | TWAEV | 1 mg/m ³ | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Polyvinyl chloride - Total dust. | TWA | 10 mg/m ³ | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| Petroleum distillates - Non-aerosol. - as total hydrocarbon vapor | TWA | 200 mg/m ³ | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Petroleum distillates | TWAEV | 525 mg/m ³ | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Petroleum distillates - Non-aerosol. - as total hydrocarbon vapor | TWAEV | 200 mg/m ³ | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| | TWAEV | 200 mg/m ³ | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |

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|---|-------|----------------------|---|
| Titanium dioxide - Total dust. | 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) |
| Titanium dioxide - Respirable fraction. | TWA | 3 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Titanium dioxide | TWAEV | 10 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Titanium dioxide - Total dust. | TWA | 10 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| Calcium oxide | TWA | 2 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Calcium oxide | TWAEV | 2 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Calcium oxide | TWA | 2 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| Xylene | TWA | 100 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| | STEL | 150 ppm | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Xylene | TWAEV | 100 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| | STEL | 150 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Xylene | TWA | 100 ppm 434 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| | STEL | 150 ppm 651 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |

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| Isophorone 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) |
| Isophorone Diisocyanate | TWAEV | 0.005 ppm | | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| | CEV | 0.02 ppm | | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Isophorone Diisocyanate | TWA | 0.005 ppm | 0.045 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| Ethylbenzene | TWA | 20 ppm | | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
| Ethylbenzene | STEL | 125 ppm | | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| | TWAEV | 100 ppm | | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Ethylbenzene | TWA | 100 ppm | 434 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| | STEL | 125 ppm | 543 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| Hydrotreated heavy naphthenic distillate - Mist. | TWA | | 0.2 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
| | TWA | | 1 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
| Hydrotreated heavy naphthenic distillate - Mist. | TWAEV | | 5 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| | STEL | | 10 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |

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| Hydrotreated heavy naphthenic distillate - Mist. | TWA | 5 mg/m ³ | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |
| | STEL | 10 mg/m ³ | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008) |

Biological Limit Values

| Chemical Identity | Exposure Limit Values | Source |
|--|--------------------------------|---------------------|
| Xylene (Methylhippuric acids: Sampling time: End of shift.) | 1.5 g/g (Creatinine in urine) | ACGIH BEL (03 2013) |
| Ethylbenzene (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.) | 0.15 g/g (Creatinine in urine) | ACGIH BEL (02 2014) |

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

General information: Use personal protective equipment as required.

Eye/face protection: Wear goggles/face shield.

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. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.

9. Physical and chemical properties

Appearance

Physical state: solid

Form: Paste

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| Color: | Tan |
| Odor: | Mild |
| 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: | > 93 °C > 199 °F (Setaflash Closed Cup) |
| Evaporation rate: | Slower than n-Butyl Acetate |
| Flammability (solid, gas): | No |
| Upper/lower limit on flammability or explosive 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: | 1.32 |
| Solubility(ies) | |
| Solubility in water: | Insoluble in 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

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| 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: | Alcohols. Amines. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture. |
| 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

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| Ingestion: | May be ingested by accident. Ingestion may cause irritation and malaise. |
| Inhalation: | In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes. |

Skin Contact: Causes mild skin irritation. May cause an allergic skin reaction.

Eye contact: Eye contact is possible and should be avoided.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 163,778.85 mg/kg

Dermal

Product: ATEmix: 11,136.14 mg/kg

Inhalation

Product: No data available.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

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| Petroleum distillates | in vivo (Rabbit, 24 - 72 hrs): Not irritating |
| Titanium dioxide | in vivo (Rabbit, 24 - 72 hrs): Not irritating |
| Calcium oxide | in vivo (Rabbit, 24 hrs): Category 1 |
| Xylene | in vivo (Rabbit, 24 hrs): Moderately irritating |
| Isophorone Diisocyanate | in vivo (Rabbit, 24 - 72 hrs): Category 1 |
| Ethylbenzene | Irritating |
| Hydrotreated heavy naphthenic distillate | in vivo (Rabbit, 24 hrs): Not irritating |
| Nonane | in vivo (Rabbit, 24 - 72 hrs): Not irritating |
| Aluminum oxide | in vivo (Rabbit, 24 hrs): Not irritating |

Respiratory or Skin Sensitization

Product: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause sensitization by inhalation.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

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| Titanium dioxide | Overall evaluation: Possibly carcinogenic to humans. |
| Ethylbenzene | Overall evaluation: Possibly carcinogenic to humans. |
| Hydrotreated heavy naphthenic distillate | Overall evaluation: Not classifiable as to carcinogenicity to humans. Overall evaluation: Carcinogenic to humans. |

US. National Toxicology Program (NTP) Report on Carcinogens:

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| Hydrotreated heavy naphthenic distillate | Known To Be Human Carcinogen. |
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US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

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| Polyvinyl chloride | Cancer |
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Germ Cell Mutagenicity

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| In vitro Product: | No data available. |
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| In vivo Product: | No data available. |
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| Reproductive toxicity Product: | No data available. |
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| Specific Target Organ Toxicity - Single Exposure Product: | No data available. |
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| Specific Target Organ Toxicity - Repeated Exposure Product: | No data available. |
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| Aspiration Hazard Product: | No data available. |
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| Other effects: | No data available. |
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| 12. Ecological information |
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Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

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| Petroleum distillates | LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 2.9 mg/l Mortality |
| Titanium dioxide | LC 50 (Mummichog (Fundulus heteroclitus), 96 h): > 1,000 mg/l Mortality |
| Xylene | LC 50 (Fathead minnow (Pimephales promelas), 96 h): 13.41 mg/l Mortality |
| Ethylbenzene | LC 50 (Bluegill (Lepomis macrochirus), 24 h): 70 - 149 mg/l Mortality LC 50 (Bluegill (Lepomis macrochirus), 24 h): 112 - 170 mg/l Mortality LC 50 (Bluegill (Lepomis macrochirus), 24 h): 113 - 162 mg/l Mortality LC 50 (Bluegill (Lepomis macrochirus), 24 h): 66 - 276 mg/l Mortality LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 24 h): 11 - 18 mg/l Mortality |

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

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| Titanium dioxide | EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication |
| Xylene | LC 50 (Water flea (Daphnia magna), 24 h): > 100 - 1,000 mg/l Mortality |
| Ethylbenzene | EC 50 (Water flea (Daphnia magna), 24 h): 1.47 - 2.18 mg/l Intoxication EC 50 (Water flea (Daphnia magna), 24 h): 1.51 - 2.14 mg/l Intoxication EC 50 (Water flea (Daphnia magna), 24 h): 1.63 - 2.28 mg/l Intoxication EC 50 (Water flea (Daphnia magna), 24 h): 2.2 mg/l Intoxication EC 50 (Water flea (Daphnia magna), 24 h): 1.53 - 3.17 mg/l Intoxication |

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

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|--|--|
| Petroleum distillates | NOAEL (Oncorhynchus mykiss, 28 d): 0.098 mg/l QSAR |
| Titanium dioxide | LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l experimental result |
| Calcium oxide | NOAEL (Oncorhynchus mykiss, 60 d): 307 mg/l interpreted |
| Xylene | NOAEL (Oncorhynchus mykiss, 56 d): > 1.3 mg/l experimental result |
| Hydrotreated heavy naphthenic distillate | NOAEL (Oncorhynchus mykiss, 14 d): >= 1,000 mg/l QSAR |
| Nonane | NOAEL (Oncorhynchus mykiss, 28 d): 0.252 mg/l QSAR |
| Aluminum oxide | NOAEL (Pimephales promelas, 28 d): 4.7 mg/l experimental result |

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.**Specified substance(s):**

Xylene Log Kow: 3.12 - 3.20

Ethylbenzene Log Kow: 3.15

Nonane Log Kow: 5.46

Mobility in Soil:

No data available.

Other Adverse Effects:

Toxic to aquatic organisms.

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

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| 15. Regulatory information |
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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)

| <u>Chemical Identity</u> | <u>OSHA hazard(s)</u> |
|--------------------------|--|
| Polyvinyl chloride | Blood Liver Cancer Flammability Central nervous system |

CERCLA Hazardous Substance List (40 CFR 302.4):

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Xylene | 100 lbs. |
| Ethylbenzene | 1000 lbs. |
| Nonane | 100 lbs. |
| Toluene | 1000 lbs. |
| Methanol | 5000 lbs. |

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Delayed (Chronic) Health Hazard
Immediate (Acute) Health Hazards

SARA 302 Extremely Hazardous Substance

| <u>Chemical Identity</u> | <u>Reportable quantity</u> | <u>Threshold Planning Quantity</u> |
|--------------------------|----------------------------|------------------------------------|
| Isophorone Diisocyanate | 500 lbs. | 500 lbs. |

SARA 304 Emergency Release Notification

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|---------------------------------|----------------------------|
| Xylene | 100 lbs. |
| Isophorone Diisocyanate | |
| Diisodecyl phthalate | |
| Ethylbenzene | 1000 lbs. |
| Nonane | 100 lbs. |
| Toluene | 1000 lbs. |
| Diisodecyl phthalate (mixed Is) | |
| Methanol | 5000 lbs. |

SARA 311/312 Hazardous Chemical

| <u>Chemical Identity</u> | <u>Threshold Planning Quantity</u> |
|---|------------------------------------|
| Isophorone Diisocyanate | 500lbs |
| Calcium Carbonate (Limestone) | 500 lbs |
| Polyvinyl chloride | 500 lbs |
| Petroleum distillates | 500 lbs |
| Titanium dioxide | 500 lbs |
| Calcium oxide | 500 lbs |
| Xylene | 500 lbs |
| Ethylbenzene | 500 lbs |
| Hydrotreated heavy naphthenic distillate | 500 lbs |
| Nonane | 500 lbs |
| Aluminum oxide | 500 lbs |

SARA 313 (TRI Reporting)Chemical Identity

Xylene
Ethylbenzene

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations**US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

US. New Jersey Worker and Community Right-to-Know ActChemical Identity

Calcium Carbonate (Limestone)
Polyvinyl chloride
Petroleum distillates
Titanium dioxide
Calcium oxide
Xylene

US. Massachusetts RTK - Substance ListChemical Identity

Calcium Carbonate (Limestone)
Petroleum distillates
Titanium dioxide
Calcium oxide
Xylene
Isophorone Diisocyanate
Crystalline Silica (Quartz)/ Silica Sand

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Calcium Carbonate (Limestone)
Petroleum distillates
Titanium dioxide
Calcium oxide
Xylene

US. Rhode Island RTK

Chemical Identity

Xylene

Other Regulations:

| | |
|--|---------|
| Regulatory VOC (less water and exempt solvent): | 108 g/l |
| VOC Method 310: | 8.19 % |

Inventory Status:

| | |
|--|--|
| Australia AICS: | One or more components in this product are not listed on or exempt from the Inventory. |
| Canada DSL Inventory List: | 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. |
| Japan (ENCS) List: | 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. |
| Korea Existing Chemicals Inv. (KECI): | 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. |
| Philippines PICCS: | 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. |
| New Zealand Inventory of Chemicals: | 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.

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| 16. Other information, including date of preparation or last revision |
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Revision Date: 08/04/2015

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.