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This is a kit that contains the following components: THC 901 LIMESTONE PRETINT THC 901 CURING AGENT



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SAFETY DATA SHEET

1. Identification

Product identifier: THC 901 LIMESTONE PRETINT

Product Code: 868501 802

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 Beachwood OH 44122 US

Contact person:EH&S DepartmentTelephone:216-292-5000

Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Carcinogenicity Category 2
Toxic to reproduction Category 1B

Unknown toxicity - Health

Acute toxicity, oral 36.41 %
Acute toxicity, dermal 39.51 %
Acute toxicity, inhalation, vapor 99.78 %
Acute toxicity, inhalation, dust 94.58 %

or mist

Environmental Hazards

Acute hazards to the aquatic Category 2 environment

Unknown toxicity - Environment

Acute hazards to the aquatic 80.92 % environment

Chronic hazards to the aquatic 100 %

environment

Environmental Hazards

Acute hazards to the aquatic Category 2

environment



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Unknown toxicity - Environment

Acute hazards to the aquatic

80.92 %

environment

Chronic hazards to the aquatic

100 %

environment

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Suspected of causing cancer.

May damage fertility or the unborn child.

Toxic to aquatic life.

Precautionary Statements

Prevention: 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 exposed or concerned: Get medical advice/attention.

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.

Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Mixtures

| Chemical Identity | CAS number | Content in percent (%)* |
|-------------------------------|------------|-------------------------|
| Calcium Carbonate (Limestone) | 1317-65-3 | 30 - 60% |
| Butyl benzyl phthalate | 85-68-7 | 7 - 13% |
| Petroleum distillates | 64742-47-8 | 5 - 10% |
| Titanium dioxide | 13463-67-7 | 1 - 5% |
| Xylene | 1330-20-7 | 1 - 5% |



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| Ethylbenzene | 100-41-4 | 0.1 - 1% |
|----------------|-----------|----------|
| Calcium oxide | 1305-78-8 | 0.1 - 1% |
| Aluminum oxide | 1344-28-1 | 0.1 - 1% |
| Toluene | 108-88-3 | 0.1 - 1% |
| Nonane | 111-84-2 | 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: Wash skin thoroughly with soap and water. If skin irritation occurs: Get

medical advice/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: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

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.



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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: No data available.

Methods and material for containment and cleaning

Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

up:

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. 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 | Туре | Exposure Limit Values | Source |
|---|------|---|--|
| Calcium Carbonate (Limestone) - Total dust. | PEL | 15 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Calcium Carbonate (Limestone) - Respirable fraction. | PEL | 5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Petroleum distillates - Non- aerosol as total hydrocarbon vapor | TWA | 200 mg/m3 | US. ACGIH Threshold Limit Values (2011) |
| | TWA | 200 mg/m3 | US. ACGIH Threshold Limit Values (2011) |
| Titanium dioxide | TWA | 10 mg/m3 | US. ACGIH Threshold Limit Values (2011) |
| Titanium dioxide - Total dust. | PEL | 15 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Titanium dioxide - Respirable fraction. | TWA | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| Titanium dioxide - Total dust. | TWA | 15 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| Titanium dioxide - Respirable fraction. | TWA | 5 mg/m3 | US. ÖSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| Titanium dioxide - Total dust. | TWA | 50 millions of particles per cubic foot of | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |



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| | | | air | |
|---------------------------------------|---------|----------|--|--|
| Xylene | STEL | 150 ppm | 655 mg/m3 | US. NIOSH: Pocket Guide to Chemical |
| • | REL | 100 ppm | 435 mg/m3 | Hazards (2010) US. NIOSH: Pocket Guide to Chemical |
| | STEL | 150 ppm | 655 mg/m3 | Hazards (2010) US. NIOSH: Pocket Guide to Chemical |
| | REL | 100 ppm | 435 mg/m3 | Hazards (2010) US. NIOSH: Pocket Guide to Chemical |
| | INCL | тоо ррпп | 433 mg/m3 | Hazards (2010) |
| | STEL | 150 ppm | 655 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| | REL | 100 ppm | 435 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| | STEL | 150 ppm | 655 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 100 ppm | 435 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 100 ppm | 435 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) |
| | STEL | 150 ppm | 655 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) |
| | ST ESL | | 350 μg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011) |
| | ST ESL | | 80 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011) |
| | AN ESL | | 42 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011) |
| | AN ESL | | 180 μg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011) |
| | STEL | 150 ppm | 655 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) |
| | Ceiling | 300 ppm | | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) |
| | TWA PEL | 100 ppm | 435 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) |
| | TWA | 100 ppm | | US. ACGIH Threshold Limit Values (2011) |
| | STEL | 150 ppm | 10= / 0 | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 100 ppm | 435 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Ethylbenzene | TWA | 20 ppm | | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 100 ppm | 435 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Calcium oxide | TWA | | 2 mg/m3 | US. ACGIH Threshold Limit Values (2011) |
| Calcium Oxide | PEL | | 5 mg/m3 | US. OSHA Table Z-1 Limits for Air |
| Aluminum oxide - Respirable | TIA/A | | 4 (2 | Contaminants (29 CFR 1910.1000) (02 2006) |
| fraction. | TWA | | 1 mg/m3 | US. ACGIH Threshold Limit Values (2011) |
| | PEL | | 5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Aluminum oxide - Total dust. | PEL | | 15 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | | 50 millions of particles per cubic foot of | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| Aluminum oxide - Respirable fraction. | TWA | | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |
| | TWA | | 5 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016) |



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| Aluminum oxide - Total dust. | TWA | 15 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 |
|------------------------------|---------|----------|--|
| | | | 2016) |
| Toluene | TWA | 20 ppm | US. ACGIH Threshold Limit Values (2011) |
| | TWA | 200 ppm | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 |
| | | | 2006) |
| | Ceiling | 300 ppm | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 |
| | | | 2006) |
| | MAX. | 500 ppm | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 |
| | CONC | | 2006) |
| Nonane | TWA | 200 ppm | US. ACGIH Threshold Limit Values (02 2012) |

| Chemical name | Туре | Exposure Limi | t Values | Source |
|---|------|---------------|-----------|---|
| Calcium Carbonate (Limestone) - Total dust. | 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) |
| | 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) |
| Calcium Carbonate (Limestone) - 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) |
| Calcium Carbonate (Limestone) - Total dust. | TWA | | 10 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) |
| Petroleum distillates - Non- aerosol as total hydrocarbon vapor | TWA | | 200 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Petroleum distillates | TWA | | 525 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| Petroleum distillates - Non- aerosol as total hydrocarbon vapor | TWA | | 200 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| | TWA | | 200 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| 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 | TWA | | 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) (09 2017) |
| Xylene | TWA | 100 ppm | 434 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009) |
| | STEL | 150 ppm | 651 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009) |
| 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) |



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| Xylene | TWA | 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 | STEL | 150 ppm | 651 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) |
| | TWA | 100 ppm | 434 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) |
| Diisodecyl phthalate | TWA | | 5 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010) |
| 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 | TWA | 20 ppm | | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015) |
| Ethylbenzene | STEL | 125 ppm | 543 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) |
| | TWA | 100 ppm | 434 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) |

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 BEI (03 2013) |
| Ethylbenzene (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.) | 0.15 g/g (Creatinine in urine) | ACGIH BEI (02 2014) |
| Toluene (o-Cresol, with hydrolysis: Sampling time: End of shift.) | 0.3 mg/g (Creatinine in urine) | ACGIH BEI (03 2013) |
| Toluene (toluene: Sampling time: Prior to last shift of work week.) | 0.02 mg/l (Blood) | ACGIH BEI (03 2013) |
| Toluene (toluene: Sampling time: End of shift.) | 0.03 mg/l (Urine) | ACGIH BEI (03 2013) |

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



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Hand Protection: Use suitable protective gloves if risk of skin contact.

Other: No data available.

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 handle until all safety precautions have been read and understood. Obtain special instructions

before use.

9. Physical and chemical properties

Appearance

Physical state: solid
Form: Paste
Color: Gray
Odor: Mild

Odor threshold:

pH:

No data available.

Evaporation rate: Slower than n-Butyl Acetate

Flammability (solid, gas):

No
Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

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: 1.2

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
No data available.
No data available.
Decomposition temperature:
No data available.
Viscosity:
No data available.

10. Stability and reactivity

Reactivity: No data available.



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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

Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

Skin Contact: Causes mild skin irritation.

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

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

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: ATEmix: 153,504.18 mg/kg

Dermal

Product: ATEmix: 19,230.78 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.



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Specified substance(s):

Petroleum distillates LC 50 (Rat): > 4.3 mg/l

Titanium dioxide LC 50 (Rat): 3.43 mg/l

Calcium oxide LC 50 (Rat): 40 mg/m3

Aluminum oxide LC 50 (Rat): 7.6 mg/l

Toluene LC 50 (Rat): 25.7 mg/l

Nonane LC 50 (Rat): 23.76 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Butyl benzyl phthalate in vivo (Rabbit): Not irritant Experimental result, Key study

Petroleum distillates in vivo (Rabbit): Irritating Experimental result, Key study

Titanium dioxide in vivo (Rabbit): Not irritant Experimental result, Supporting study

Xylene in vivo (Rabbit): Moderate irritant Experimental result, Weight of Evidence

study

Calcium oxide in vivo (Rabbit): Irritating Read-across from supporting substance (structural

analogue or surrogate), Key study

Aluminum oxide in vivo (Rabbit): Not irritant Experimental result, Key study

Toluene in vivo (Rabbit): Irritating Experimental result, Key study

Nonane in vivo (Rabbit): Irritating Read-across based on grouping of substances

(category approach), Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):



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Butyl benzyl phthalate Rabbit, 24 - 72 hrs: Not irritating

Petroleum distillates Rabbit, 24 - 72 hrs: Not irritating

Titanium dioxide Rabbit, 24 hrs: Not irritating

Xylene Rabbit, 24 hrs: Moderately irritating

Ethylbenzene Rabbit, 7 d: Slightly irritating

Aluminum oxide Rabbit, 24 hrs: Not irritating

Toluene Rabbit, 24 - 72 hrs: Not irritating

Nonane Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Titanium dioxide Overall evaluation: Possibly carcinogenic to humans.

Ethylbenzene Overall evaluation: Possibly carcinogenic to humans.

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: May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure



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Product: No data available.

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):

Butyl benzyl phthalate LC 50 (Fathead minnow (Pimephales promelas), 96 h): 1.39 - 3.88 mg/l

Mortality

Petroleum distillates LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 2.9

mg/I Mortality

Xylene LC 50 (Fathead minnow (Pimephales promelas), 96 h): 13.41 mg/l Mortality

Ethylbenzene LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 4.2

mg/l Mortality

Toluene LC 50 (Fathead minnow (Pimephales promelas), 96 h): 20.5 - 23.8 mg/l

Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Butyl benzyl phthalate EC 50 (Water flea (Daphnia magna), 48 h): > 10 mg/l Intoxication

EC 50 (Opossum shrimp (Americamysis bahia), 48 h): > 0.9 mg/l Mortality

EC 50 (Water flea (Daphnia magna), 24 h): > 10 mg/l Intoxication EC 50 (Water flea (Daphnia magna), 21 d): > 0.76 mg/l Intoxication EC 50 (Water flea (Daphnia magna), 14 d): > 0.76 mg/l Intoxication

Titanium dioxide EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication

Ethylbenzene EC 50 (Water flea (Daphnia magna), 48 h): 1.37 - 4.4 mg/l Intoxication

Toluene LC 50 (Water flea (Daphnia magna), 24 h): 240 - 420 mg/l Mortality

Chronic hazards to the aquatic environment:



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Fish

Product: No data available.

Specified substance(s):

Butyl benzyl phthalate NOAEL (Pimephales promelas, 126 d): 64.6 - 67.5 µg/l Experimental result,

Key study

NOAEL (Oncorhynchus mykiss, 124 d): 0.2 mg/l Experimental result, Key

study

LOAEL (Pimephales promelas, 126 d): 18.1 µg/l Experimental result, Key

study

LC 50 (Pimephales promelas, 4 d): 2.32 mg/l Experimental result,

Supporting study

LC 50 (Pimephales promelas, 14 d): 2.25 mg/l Experimental result,

Supporting study

Toluene LOAEL (Oncorhynchus kisutch, 40 d): 2.77 mg/l Experimental result, Key

study

NOAEL (Pimephales promelas, 32 d): 4 mg/l Experimental result,

Supporting study

LOAEL (Pimephales promelas, 32 d): 6 mg/l Experimental result, Supporting

study

NOAEL (Oncorhynchus kisutch, 40 d): 1.39 mg/l Experimental result, Key

study

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.

Specified substance(s):

Butyl benzyl phthalate Bluegill (Lepomis macrochirus), Bioconcentration Factor (BCF): 772 (Flow

through)

Toluene Green algae (Selenastrum capricornutum), Bioconcentration Factor (BCF):

3,016 (Static)

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.



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Specified substance(s):

Butyl benzyl phthalate Log Kow: 4.91

Xylene Log Kow: 3.12 - 3.20

Ethylbenzene Log Kow: 3.15

Toluene Log Kow: 2.73

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

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.



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CERCLA Hazardous Substance List (40 CFR 302.4):

| Chemical Identity | Reportable quantity |
|------------------------|---------------------|
| Butyl benzyl phthalate | 100 lbs. |
| Xylene | 100 lbs. |
| Ethylbenzene | 1000 lbs. |
| Toluene | 1000 lbs. |
| Nonane | 100 lbs. |
| Dibutyl phthalate | 10 lbs. |

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

| The state of the s | | | | |
|--|---------------------|--|--|--|
| Chemical Identity | Reportable quantity | | | |
| Butyl benzyl phthalate | 100 lbs. | | | |
| Xylene | 100 lbs. | | | |
| Diisodecyl phthalate | | | | |
| Ethylbenzene | 1000 lbs. | | | |
| Toluene | 1000 lbs. | | | |

Nonane 100 lbs.

Diisodecyl phthalate

(mixed Is)

Dibutyl phthalate 10 lbs.

SARA 311/312 Hazardous Chemical

| Chemical Identity | Threshold Planning Quantity |
|------------------------|------------------------------------|
| Calcium Carbonate | 10000 lbs |
| (Limestone) | |
| Butyl benzyl phthalate | 10000 lbs |
| Petroleum distillates | 10000 lbs |
| Titanium dioxide | 10000 lbs |
| Xylene | 10000 lbs |
| Ethylbenzene | 10000 lbs |
| Calcium oxide | 10000 lbs |
| Aluminum oxide | 10000 lbs |
| Toluene | 10000 lbs |
| Nonane | 10000 lbs |

SARA 313 (TRI Reporting)

Chemical Identity

Xylene

Ethylbenzene

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.



Revision Date: 07/24/2018

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

Chemical Identity

Calcium Carbonate (Limestone)
Butyl benzyl phthalate
Petroleum distillates
Titanium dioxide
Xylene
Ethylbenzene

US. Massachusetts RTK - Substance List

Chemical Identity

Calcium Carbonate (Limestone)
Butyl benzyl phthalate
Petroleum distillates
Titanium dioxide
Xylene
Crystalline Silica (Quartz)/ Silica Sand

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Calcium Carbonate (Limestone)
Butyl benzyl phthalate
Petroleum distillates
Titanium dioxide
Xylene
Diisodecyl phthalate

US. Rhode Island RTK

Chemical Identity

Calcium Carbonate (Limestone)
Petroleum distillates
Titanium dioxide
Xylene

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol



Revision Date: 07/24/2018

Not applicable

VOC: When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 113 g/l

Regulatory VOC (less water and exempt solvent) : 94 g/l

VOC Method 310 : 7.77 %



Revision Date: 07/24/2018

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.

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

Revision Date: 07/24/2018

Version #: 1.1

Further Information: No data available.



Revision Date: 07/24/2018

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.



Revision Date: 07/24/2018

SAFETY DATA SHEET

1. Identification

Product identifier: THC 901 CURING AGENT

Product Code: 868501 802

Recommended use and restriction on use

Recommended use: Curative Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

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

Contact person:EH&S DepartmentTelephone:216-292-5000

Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 3

Health Hazards

Skin Corrosion/Irritation Category 1A
Serious Eye Damage/Eye Irritation Category 1
Carcinogenicity Category 2
Toxic to reproduction Category 2

Unknown toxicity - Health

Acute toxicity, oral 1.32 %
Acute toxicity, dermal 1.32 %
Acute toxicity, inhalation, vapor 99.82 %
Acute toxicity, inhalation, dust or mist 86.52 %

Environmental Hazards

Acute hazards to the aquatic Category 3 environment

Unknown toxicity - Environment

Acute hazards to the aquatic 68.53 % environment



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Chronic hazards to the aquatic 100 %

environment

Environmental Hazards

Acute hazards to the aquatic Category 3

environment

Acute hazards to the aquatic 68.53 %

environment

Chronic hazards to the aquatic 100 %

environment

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Flammable liquid and vapor.

Causes severe skin burns and eye damage.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

Harmful to aquatic life.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep container tightly closed. Ground and bond

container and receiving equipment. Use explosion-proof

[electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust or mists. Wash thoroughly after handling. 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: Remove person to fresh air and keep comfortable for

breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. In case of fire:

Use... to extinguish.

Storage: Store in a well-ventilated place. Keep cool. Store locked up.



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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):

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and

vapor. May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

| Chemical Identity | CAS number | Content in percent (%)* |
|-------------------|------------|-------------------------|
| Xylene | 1330-20-7 | 10 - 30% |
| Polyamine | 9046-10-0 | 10 - 30% |
| Ethylbenzene | 100-41-4 | 3 - 7% |
| Toluene | 108-88-3 | 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 physician or poison control center immediately. Rinse mouth. Never

give liquid to an unconscious person. Do not induce vomiting without advice

from poison control center.

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: Take off immediately all contaminated clothing. Call a physician or poison

control center immediately. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Destroy

or thoroughly clean contaminated shoes.

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.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures



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General Fire Hazards: Use water spray to keep fire-exposed containers cool. Water may be

ineffective in fighting the fire. Fight fire from a protected location. Move

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

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from

the chemical:

Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of

vapors or gases to explosive concentrations.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. 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: Avoid release to the environment. Prevent further leakage or spillage if safe

to do so. Do not contaminate water sources or sewer.



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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 get in eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take precautionary measures against static discharges. Do not get in eyes, on skin, on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities:

Store locked up. Store in a well-ventilated place. Store in a cool place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Туре | Exposure Limit Values | | Source | |
|-------------------|---------|------------------------------|-----------|--|--|
| Xylene | STEL | 150 ppm | 655 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) | |
| | REL | 100 ppm | 435 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) | |
| | STEL | 150 ppm | 655 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) | |
| | REL | 100 ppm | 435 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) | |
| | STEL | 150 ppm | 655 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) | |
| | REL | 100 ppm | 435 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) | |
| | STEL | 150 ppm | 655 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) | |
| | TWA | 100 ppm | 435 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) | |
| | TWA | 100 ppm | 435 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) | |
| | STEL | 150 ppm | 655 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) | |
| | ST ESL | | 350 μg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011) | |
| | STESL | | 80 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011) | |
| | AN ESL | | 42 ppb | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011) | |
| | AN ESL | | 180 μg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011) | |
| | STEL | 150 ppm | 655 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) | |
| | Ceiling | 300 ppm | | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) | |
| | TWA PEL | 100 ppm | 435 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) | |



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| | TWA | 100 ppm | | US. ACGIH Threshold Limit Values (2011) |
|--------------|---------|---------|-----------|---|
| | STEL | 150 ppm | | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 100 ppm | 435 mg/m3 | US. OSHA Table Z-1 Limits for Air |
| | | | | Contaminants (29 CFR 1910.1000) (02 2006) |
| Ethylbenzene | TWA | 20 ppm | | US. ACGIH Threshold Limit Values (2011) |
| | PEL | 100 ppm | 435 mg/m3 | US. OSHA Table Z-1 Limits for Air |
| | | | | Contaminants (29 CFR 1910.1000) (02 2006) |
| Toluene | TWA | 20 ppm | | US. ACGIH Threshold Limit Values (2011) |
| | TWA | 200 ppm | | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 |
| | | | | 2006) |
| | Ceiling | 300 ppm | | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 |
| | | | | 2006) |
| | MAX. | 500 ppm | | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 |
| | CONC | | | 2006) |

| Chemical name | Туре | Exposure Limit Values | | Source | |
|---------------|------|-----------------------|-----------|---|--|
| Xylene | TWA | 100 ppm | 434 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009) | |
| | STEL | 150 ppm | 651 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009) | |
| 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 | TWA | 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 | STEL | 150 ppm | 651 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) | |
| | TWA | 100 ppm | 434 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) | |
| 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 | TWA | 20 ppm | | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015) | |
| Ethylbenzene | STEL | 125 ppm | 543 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) | |
| | TWA | 100 ppm | 434 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017) | |



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| 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) |

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 BEI (03 2013) |
| Ethylbenzene (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.) | 0.15 g/g (Creatinine in urine) | ACGIH BEI (02 2014) |
| Toluene (o-Cresol, with hydrolysis: Sampling time: End of shift.) | 0.3 mg/g (Creatinine in urine) | ACGIH BEI (03 2013) |
| Toluene (toluene: Sampling time: Prior to last shift of work week.) | 0.02 mg/l (Blood) | ACGIH BEI (03 2013) |
| Toluene (toluene: Sampling time: End of shift.) | 0.03 mg/l (Urine) | ACGIH BEI (03 2013) |

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. Use explosion-proof ventilation 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: 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.



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Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product. Do not get in eyes. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Do not get this material in contact with skin.

9. Physical and chemical properties

Appearance

Physical state: liquid Form: liquid Color: Yellow Odor: Mild pungent Odor threshold: No data available. No data available. :Ha Melting point/freezing point: No data available. Initial boiling point and boiling range: No data available.

Flash Point: 41 °C 105 °F(Setaflash Closed Cup)

Evaporation rate: Slower than Ether

Flammability (solid, gas): No Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

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: 0.98

Solubility(ies)

Solubility 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

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Heat, sparks, flames.



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Incompatible Materials: Strong 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 and

mucus membranes.

Skin Contact: Causes severe skin burns.

Eye contact: Causes serious eye damage.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

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: ATEmix: 11,682.22 mg/kg

Dermal

Product: ATEmix: 24,407.77 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Polyamine LC 50 (Rat): > 0.74 mg/l

Toluene LC 50 (Rat): 25.7 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation



Revision Date: 07/24/2018

Product: No data available.

Specified substance(s):

Xylene in vivo (Rabbit): Moderate irritant Experimental result, Weight of Evidence

study

Polyamine in vivo (Rabbit): severely irritant Experimental result, Supporting study

Toluene in vivo (Rabbit): Irritating Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Xylene Rabbit, 24 hrs: Moderately irritating

Polyamine Rabbit, 24 hrs: Corrosive

Ethylbenzene Rabbit, 7 d: Slightly irritating

Toluene Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Ethylbenzene Overall evaluation: Possibly carcinogenic to humans.

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: Suspected of damaging fertility or the unborn child.



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Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

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):

Xylene LC 50 (Fathead minnow (Pimephales promelas), 96 h): 13.41 mg/l Mortality

Ethylbenzene LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 4.2

mg/l Mortality

Toluene LC 50 (Fathead minnow (Pimephales promelas), 96 h): 20.5 - 23.8 mg/l

Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Ethylbenzene EC 50 (Water flea (Daphnia magna), 48 h): 1.37 - 4.4 mg/l Intoxication

Toluene LC 50 (Water flea (Daphnia magna), 24 h): 240 - 420 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Toluene LOAEL (Oncorhynchus kisutch, 40 d): 2.77 mg/l Experimental result, Key

study

NOAEL (Pimephales promelas, 32 d): 4 mg/l Experimental result,

Supporting study

LOAEL (Pimephales promelas, 32 d): 6 mg/l Experimental result, Supporting



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study

NOAEL (Oncorhynchus kisutch, 40 d): 1.39 mg/l Experimental result, Key

study

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.

Specified substance(s):

Toluene Green algae (Selenastrum capricornutum), Bioconcentration Factor (BCF):

3,016 (Static)

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

Toluene Log Kow: 2.73

Mobility in soil: No data available.

Other adverse effects: Harmful 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



Revision Date: 07/24/2018

TDG:

UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Xylene, Aliphatic Amine), 3 (8), PG III

CFR / DOT:

UN2924, Flammable liquids, corrosive, n.o.s. (Xylene, Aliphatic Amine), 3(8), PG III

IMDG:

UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Xylene, Aliphatic Amine, Tricresyl Phospate), 3(8), PG III, MARINE POLLUTANT

Further Information:

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

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 | | |
|-------------------|---------------------|--|--|
| Xylene | 100 lbs. | | |
| Ethylbenzene | 1000 lbs. | | |
| Toluene | 1000 lbs. | | |

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard

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

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity Reportable quantity

Xylene 100 lbs. Ethylbenzene 1000 lbs. Toluene 1000 lbs.



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SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u> <u>Threshold Planning Quantity</u>

Xylene 10000 lbs
Polyamine 10000 lbs
Ethylbenzene 10000 lbs
Toluene 10000 lbs

SARA 313 (TRI Reporting)

Chemical Identity

Xylene

Ethylbenzene

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

Chemical Identity

Xylene

Tricresyl phosphate

Ethylbenzene

US. Massachusetts RTK - Substance List

Chemical Identity

Xylene

Ethylbenzene

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Xylene

Ethylbenzene

US. Rhode Island RTK

Chemical Identity

Xylene

Ethylbenzene

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable



Revision Date: 07/24/2018

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

VOC: When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 118 g/l

Regulatory VOC (less water and : 176 g/l

exempt solvent)

VOC Method 310 : 17.99 %



Revision Date: 07/24/2018

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.

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

Revision Date: 07/24/2018

Version #: 1.1

Further Information: No data available.



Revision Date: 07/24/2018

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.