

## MBR® Cold Application Adhesive

Version 4.0

Revision Date 05/31/2024

Print Date 05/31/2024

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : MBR® Cold Application Adhesive

Manufacturer or supplier's details

Company : Johns Manville  
Address : P.O. Box 5108  
Denver, CO USA 80217-5108  
Telephone : +1-303-978-2000  
Emergency telephone : 24-Hour Number: +1-800-424-9300 (CHEMTREC)  
number

Company : Johns Manville Canada Inc.  
Address : 5301 42 Avenue  
Innisfail, AB Canada T4G 1A2  
Telephone : +1-303-978-2000  
Emergency telephone : 24-Hour Number: +1-800-424-9300 (CHEMTREC)  
number

Recommended use of the chemical and restrictions on use

Recommended use : Adhesives and/or sealants  
Restrictions on use : For professional users only.  
Prepared by : productsafety@jm.com

### SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with 29 CFR 1910.1200 and the Hazardous Products Regulations**

Flammable liquids : Category 3  
Skin irritation : Category 2  
Eye irritation : Category 2A  
Germ cell mutagenicity : Category 1B  
Carcinogenicity : Category 1A  
Specific target organ toxicity : Category 3 (Central nervous system)  
- single exposure  
Specific target organ toxicity : Category 2  
- repeated exposure

**GHS label elements**

Hazard pictograms :



Signal word : Danger

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- Hazard statements : H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.
- Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe mist or vapours.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.
- Disposal:**  
P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

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**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**
**Chemical nature**

Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
asphalt	8052-42-4	>= 30 - < 60
naphtha (petroleum), hydrotreated heavy	64742-48-9	>= 10 - < 30
1,2,4-trimethylbenzene	95-63-6	>= 1 - < 10
palygorskite	12174-11-7	>= 1 - < 10
solvent naphtha (petroleum), light arom.	64742-95-6	>= 1 - < 10
crystalline silica	14808-60-7	>= 0.1 - < 1

Actual concentration or concentration range is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

- General advice : Handle in accordance with good industrial hygiene and safety practice.  
Show this safety data sheet to the doctor in attendance.  
Move out of dangerous area.  
Do not leave the victim unattended.
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Cool melted product on skin with plenty of water. Do not remove solidified product.  
Call a physician if irritation develops or persists.  
Burns must be treated by a physician.  
Wash contaminated clothing before reuse.
- In case of eye contact : Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Keep eye wide open while rinsing.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
Gently wipe or rinse the inside of the mouth with water.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician or Poison Control Centre immediately.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
May cause genetic defects.  
May cause cancer.

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Protection of first-aiders : May cause damage to organs through prolonged or repeated exposure.  
: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Foam  
Dry powder  
Water spray

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Vapours may form explosive mixtures with air.  
Flash back possible over considerable distance.  
In the event of a fire, toxic gases or vapors may be released.

Hazardous combustion products : carbon oxides  
Magnesium oxides  
aluminum oxides  
Silicon oxides  
sulfur oxides

Further information : Standard procedure for chemical fires.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
Do not allow contact with soil, surface or ground water.  
Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Non-sparking tools should be used.  
Keep in suitable, closed containers for disposal.

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### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
Use only explosion-proof equipment.  
Keep away from open flames, hot surfaces and sources of ignition.  
Do not pressurise, cut, weld, braze, solder, drill, or grind on containers.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.  
For personal protection see section 8.
- Conditions for safe storage : No smoking.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.  
Take measures to prevent the build up of electrostatic charge.
- Materials to avoid : Keep away from oxidizing agents and strongly acid or alkaline materials.
- Recommended storage temperature : 60 - 80 °F / 16 - 27 °C
- Further information on storage stability : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Do not freeze.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
asphalt	8052-42-4	TWA (Fumes)	5 mg/m <sup>3</sup>	CA AB OEL
		TWAEV (Fumes)	5 mg/m <sup>3</sup>	CA QC OEL
		TWA (Fume, inhalable fraction)	0.5 mg/m <sup>3</sup> (benzene soluble aerosol)	ACGIH
		C (Fumes)	5 mg/m <sup>3</sup>	NIOSH REL

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		TWA (Inhalable fume)	0.5 mg/m3 (benzene soluble aerosol)	CA BC OEL
naphtha (petroleum), hydrotreated heavy	64742-48-9	TWA	500 ppm 2,000 mg/m3	OSHA
		TWA	525 mg/m3	CA ON OEL
1,2,4-trimethylbenzene	95-63-6	TWA	25 ppm 125 mg/m3	NIOSH REL
		TWA	25 ppm	CA BC OEL
		TWA	25 ppm	ACGIH
		TWA	25 ppm 123 mg/m3	CA AB OEL
		TWAEV	25 ppm	CA QC OEL
solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2,000 mg/m3	OSHA
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
		TWA	200 mg/m3 (As total hydrocarbon vapour)	CA AB OEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	CA AB OEL
crystalline silica	14808-60-7	TWA (Respirable particulates)	0.025 mg/m3	CA AB OEL
		TWA (Respirable fraction)	0.1 mg/m3	CA ON OEL
		TWAEV (respirable dust)	0.1 mg/m3	CA QC OEL
		TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (respirable)	10 mg/m3 / %SiO <sub>2</sub> +2	OSHA
		TWA (respirable)	250 mppcf / %SiO <sub>2</sub> +5	OSHA
		TWA (Respirable dust)	0.05 mg/m3	NIOSH REL
		TWA (Respirable)	0.025 mg/m3	CA BC OEL
		TWA (Respirable)	0.025 mg/m3 (Silica)	CA BC OEL
		TWA (Respirable dust)	0.05 mg/m3	OSHA

**Engineering measures** : Use a local and/or general ventilation system.  
Provide exhaust ventilation close to floor level.

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**Personal protective equipment**

Respiratory protection	:	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Hand protection	:	
Material	:	Protective gloves
Remarks	:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	:	Wear safety glasses with side shields or goggles. Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	:	Wear protective clothing, such as long-sleeved shirts and pants. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Remove and wash contaminated clothing before re-use.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Written instructions for handling must be available at the work place.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	viscous
Colour	:	brown, black
Odour	:	mild, hydrocarbon-like
Odour 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	:	> 37.8 - 60.0 °C Method: Cleveland open cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available

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Relative density	: No data available
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: > 20.5 mm <sup>2</sup> /s (40 °C)

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use. Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents Strong acids and strong bases
Hazardous decomposition products	: Hazardous decomposition products formed under fire conditions.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute inhalation toxicity : Acute toxicity estimate : 103.03 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 3,056 mg/kg  
Method: Calculation method

##### Components:

##### asphalt:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 0.0944 mg/l  
Exposure time: 4.5 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402

##### naphtha (petroleum), hydrotreated heavy:



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- |  |  |
|--|--|
| Acute oral toxicity                                  | : LD50 (Rat, male and female): > 5,000 mg/kg<br>Method: OECD Test Guideline 401<br>Remarks: No mortality was observed.<br>Information given is based on data obtained from similar substances.   |
| Acute inhalation toxicity                            | : LC50 (Rat, male and female): > 5,610 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: OECD Test Guideline 403<br>Remarks: No mortality was observed.<br>Information given is based on data obtained from similar substances. |
| Acute dermal toxicity                                | : LD50 (Rabbit, male and female): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>Remarks: No mortality was observed.<br>Information given is based on data obtained from similar substances.  |
| <br><b>1,2,4-trimethylbenzene:</b>                   |  |
| Acute oral toxicity                                  | : LD50 (Rat, male): 6,000 mg/kg<br>Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)  |
| Acute inhalation toxicity                            | : LC50 (Rat, male and female): 10.2 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Remarks: No mortality was observed.<br>Information given is based on data obtained from similar substances.                                       |
| Acute dermal toxicity                                | : LD50 (Rat, male and female): 3,440 mg/kg<br>Remarks: No mortality was observed.<br>Information given is based on data obtained from similar substances.  |
| <br><b>solvent naphtha (petroleum), light arom.:</b> |  |
| Acute oral toxicity                                  | : LD50 (Rat, male and female): > 5,000 mg/kg<br>Method: OECD Test Guideline 401<br>Remarks: No mortality was observed.<br>Information given is based on data obtained from similar substances.   |
| Acute inhalation toxicity                            | : LC50 (Rat, male and female): > 5,610 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: OECD Test Guideline 403<br>Remarks: No mortality was observed.<br>Information given is based on data obtained from similar substances. |
| Acute dermal toxicity                                | : LD50 (Rabbit, male and female): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>Remarks: No mortality was observed.<br>Information given is based on data obtained from similar substances.  |

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**crystalline silica:**

Acute oral toxicity : LD50 (Rat): &gt; 22,500 mg/kg

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation**
**Components:**
**naphtha (petroleum), hydrotreated heavy:**

Result: Skin irritation

**Skin corrosion/irritation**
**1,2,4-trimethylbenzene:**

Result: Skin irritation

**Skin corrosion/irritation**
**solvent naphtha (petroleum), light arom.:**

Result: Skin irritation

**Serious eye damage/eye irritation**
**Product:**

Result: irritating

**Serious eye damage/eye irritation**
**Components:**
**1,2,4-trimethylbenzene:**

Result: irritating

**Germ cell mutagenicity**
**Product:**

Germ cell mutagenicity- : In vivo tests showed mutagenic effects

Assessment

**IARC**

Group 2B: Possibly carcinogenic to humans

palygorskite

12174-11-7

Group 1: Carcinogenic to humans

crystalline silica

14808-60-7

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA (29 CFR 1910 Subpart Z, Toxic and Hazardous Substances).

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**NTP**

Known to be human carcinogen

crystalline silica

14808-60-7

**STOT - single exposure**
**Components:**
**naphtha (petroleum), hydrotreated heavy:**

Exposure routes: inhalation (vapour)

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

**STOT - single exposure**
**1,2,4-trimethylbenzene:**

Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

**STOT - single exposure**
**solvent naphtha (petroleum), light arom.:**

Exposure routes: inhalation (vapour)

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

**STOT - repeated exposure**
**Product:**

Assessment: May cause damage to organs through prolonged or repeated exposure.

**Aspiration toxicity**
**Components:**
**naphtha (petroleum), hydrotreated heavy:**

May be fatal if swallowed and enters airways.

**1,2,4-trimethylbenzene:**

May be fatal if swallowed and enters airways.

**solvent naphtha (petroleum), light arom.:**

May be fatal if swallowed and enters airways.

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**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity**
**Components:**
**naphtha (petroleum), hydrotreated heavy:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): 4.5 mg/l  
aquatic invertebrates End point: Immobilization

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Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOELR (Pseudokirchneriella subcapitata (algae)): 0.5 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

EL50 (Pseudokirchneriella subcapitata (algae)): 3.7 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 2.6 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211

**1,2,4-trimethylbenzene:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 7.72 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 3.6 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (green algae): 2.356 mg/l  
Exposure time: 96 h  
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to fish (Chronic toxicity) : Chronic Toxicity Value: 0.396 mg/l  
End point: mortality  
Exposure time: 30 d  
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Chronic Toxicity Value (Daphnia sp. (water flea)): 0.367 mg/l  
End point: mortality  
Exposure time: 16 d  
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

**solvent naphtha (petroleum), light arom.:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 4.5 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOELR (Pseudokirchneriella subcapitata (algae)): 0.5 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

EL50 (Pseudokirchneriella subcapitata (algae)): 3.1 mg/l  
End point: see user defined free text  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 2.6 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211

**crystalline silica:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 10,000 mg/l  
Exposure time: 72 h

**Persistence and degradability****Components:****naphtha (petroleum), hydrotreated heavy:**

Biodegradability : Result: Inherently biodegradable.

**1,2,4-trimethylbenzene:**

Biodegradability : Result: Biodegradable

**solvent naphtha (petroleum), light arom.:**

Biodegradability : Result: Inherently biodegradable.

**Bioaccumulative potential****Components:****1,2,4-trimethylbenzene:**

Partition coefficient: n-octanol/water : log Pow: 3.63

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

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Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

- Waste from residues : Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.  
The product should not be allowed to enter drains, water courses or the soil.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14. TRANSPORT INFORMATION****International transport regulations**

Land transport

USDOT: Not regulated if shipped in packages less than or equal to 119 gallons (450 liters).

TDG: Not regulated if shipped in packages less than or equal to 119 gallons (450 liters).

Sea transport

IMDG: UN1999, Tars, liquid, 3, III (40 °C c.c.)

Air transport

IATA/ICAO: UN1999, Tars, liquid, 3, III

**SECTION 15. REGULATORY INFORMATION****TSCA list**

TSCA - 5(a) Significant New Use Rule List of Chemicals : No substances are subject to a Significant New Use Rule.

U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpart D) : No substances are subject to TSCA 12(b) export notification requirements.

**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

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- SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Skin corrosion or irritation  
Specific target organ toxicity (single or repeated exposure)  
Carcinogenicity  
Germ cell mutagenicity  
Serious eye damage or eye irritation
- SARA 302** : This material does not contain any components with a section 302 EHS TPQ.
- SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:
- |                        |         |          |
|------------------------|---------|----------|
| 1,2,4-trimethylbenzene | 95-63-6 | 1 - 10 % |
|------------------------|---------|----------|


**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**California Prop. 65**

 **WARNING:** This product can expose you to chemicals including palygorskite, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**The components of this product are reported in the following inventories:**

- TSCA** : All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
- DSL** : On the inventory, or in compliance with the inventory

**SECTION 16. OTHER INFORMATION**
**Further information**

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**Full text of other abbreviations**

- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
- CA BC OEL : Canada. British Columbia OEL
- CA ON OEL : Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
- CA QC OEL : Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

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OSHA	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time-weighted average
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA QC OEL / TWAEV	:	Time-weighted average exposure value
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / C	:	Ceiling value not be exceeded at any time.
OSHA / TWA	:	8-hour time weighted average
OSHA / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.