

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/

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 eve.

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

ن امما Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

May cause genetic defects.

May cause cancer.



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May cause damage to organs through prolonged or repeated

exposure.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2)

Foam
Dry powder
Water spray

High volume water jet

Unsuitable extinguishing

Specific hazards during

media

a

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.

Keep away from oxidizing agents and strongly acid or alkaline

materials.

Recommended storage

temperature

Further information on

storage stability

Materials to avoid

: 60 - 80 °F / 16 - 27 °C

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

CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
8052-42-4	TWA	5 mg/m3	CA AB OEL
	(Fumes)		
	TWAEV	5 mg/m3	CA QC OEL
	(Fumes)		
	TWA (Fume,	0.5 mg/m3	ACGIH
	inhalable	(benzene soluble	
	fraction)	aerosol)	
	C (Fumes)	5 mg/m3	NIOSH REL
		(Form of exposure) 8052-42-4 TWA (Fumes) TWAEV (Fumes) TWA (Fume, inhalable fraction)	(Form of exposure) parameters / Permissible concentration 8052-42-4 TWA 5 mg/m3 (Fumes) 5 mg/m3 (Fumes) TWAEV 5 mg/m3 (Fumes) 0.5 mg/m3 (inhalable fraction) 0.5 mg/m3 (benzene soluble aerosol)



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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 / %SiO2+2	OSHA
		TWA (respirable)	250 mppcf / %SiO2+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 : No data available

range

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- : No data available

octanol/water

Auto-ignition temperature : No data available Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available Viscosity, kinematic : > 20.5 mm2/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 : No dangerous reaction known under conditions of normal use.

reactions 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 : Hazardous decomposition products formed under fire

products 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

Method: OECD Test Guideline 401 Remarks: No mortality was observed.

Information given is based on data obtained from similar

substances.

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,610 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403 Remarks: No mortality was observed.

Information given is based on data obtained from similar

substances.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402 Remarks: No mortality was observed.

Information given is based on data obtained from similar

substances.

1,2,4-trimethylbenzene:

Acute oral toxicity : LD50 (Rat, male): 6,000 mg/kg

Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)

Acute inhalation toxicity : LC50 (Rat, male and female): 10.2 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Remarks: No mortality was observed.

Information given is based on data obtained from similar

substances.

Acute dermal toxicity : LD50 (Rat, male and female): 3,440 mg/kg

Remarks: No mortality was observed.

Information given is based on data obtained from similar

substances.

solvent naphtha (petroleum), light arom.:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 401 Remarks: No mortality was observed.

Information given is based on data obtained from similar

substances.

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,610 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403 Remarks: No mortality was observed.

Information given is based on data obtained from similar

substances.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402 Remarks: No mortality was observed.

Information given is based on data obtained from similar

substances.



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crystalline silica:

Acute oral toxicity : LD50 (Rat): > 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:

IARC

Germ cell mutagenicity-

Assessment

: In vivo tests showed mutagenic effects

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.

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 :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 4.5 mg/l

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-

: log Pow: 3.63

octanol/water

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 SOCMI 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.

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



Version 4.0 Revision Date 05/31/2024 Print Date 05/31/2024

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

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