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#### **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 80127

Telephone : +1-303-978-2000

Emergency telephone : 24-Hour Number: +1-800

number

: 24-Hour Number: +1-800-424-9300 (CHEMTREC)

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 (OSHA HCS 2012) and the Hazardous Products Regulations (WHMIS 2015)

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 1

- 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.

LIGAD May cause growth defeate

H340 May cause genetic defects.

H350 May cause cancer.

H372 Causes 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 dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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**

#### **Hazardous components**

Chemical name	CAS-No.	Concentration (%)
asphalt	8052-42-4	>= 30 - < 60
naphtha (petroleum), hydrotreated heavy	64742-48-9	>= 10 - < 30
solvent naphtha (petroleum), light arom.	64742-95-6	>= 5 - < 10
1,2,4-trimethylbenzene	95-63-6	>= 1 - < 5
benzene	71-43-2	>= 0.1 - < 1
quartz (SiO2)	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.

Call a physician if irritation develops or persists.

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

Causes skin irritation.

delayed

May cause drowsiness or dizziness.

May cause genetic defects.

May cause cancer.

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

personal protective equipment.

#### **SECTION 5. FIREFIGHTING MEASURES**



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Suitable extinguishing media : Carbon dioxide (CO2)

Foam Dry powder Water spray

Unsuitable extinguishing

nedia

High volume water jet

Specific hazards during

firefighting

May release toxic, irritating and/or corrosive gases.

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon oxides

Hydrogen sulfide

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.

#### **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.



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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.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

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.

Further information on

storage stability

Materials to avoid

Stable at normal ambient temperature and pressure.

### **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 (Fume, inhalable fraction)	0.5 mg/m³ (benzene soluble aerosol)	ACGIH
		C (Fumes)	5 mg/m³	NIOSH REL
naphtha (petroleum), hydrotreated heavy	64742-48-9	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA
solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA
		TWA	200 mg/m³ (total hydrocarbon vapor)	ACGIH
1,2,4-trimethylbenzene	95-63-6	TWA	25 ppm 125 mg/m³	NIOSH REL
		TWA	25 ppm	ACGIH
benzene	71-43-2	TWA	0.5 ppm	ACGIH
		STEL	2.5 ppm	ACGIH
		TWA	0.1 ppm	NIOSH REL



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		ST	1 ppm	NIOSH REL
		TWA	10 ppm	OSHA
		CEIL	25 ppm	OSHA
		Peak	50 ppm	OSHA
			(10 minutes)	
		PEL	1 ppm	OSHA CARC
		STEL	5 ppm	OSHA CARC
quartz (SiO2)	14808-60-7	TWA	0.025 mg/m <sup>3</sup>	ACGIH
		(Respirable		
		fraction)		
		TWA	10 mg/m3 /	OSHA
		(respirable)	%SiO2+2	
		TWA	250 mppcf /	OSHA
		(respirable)	%SiO2+5	
		TWA	0.05 mg/m <sup>3</sup>	NIOSH REL
		(Respirable		
		dust)		
		TWA	0.05 mg/m <sup>3</sup>	OSHA
		(Respirable		
		dust)		

## **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio n	Basis
benzene	71-43-2	S- Phenylmerc apturic acid	Urine	End of shift (As soon as possible after exposure ceases)	25 μg/g creatinine	ACGIH BEI
		t,t-Muconic acid	Urine	End of shift (As soon as possible after exposure ceases)	500 μg/g creatinine	ACGIH BEI

**Engineering measures** : Use a local and/or general ventilation system.

Provide exhaust ventilation close to floor level.

## 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



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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.

Remove and wash contaminated clothing before re-use. Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

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.

: 100 °C

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid Colour : black

Odour : hydrocarbon-like
Odour Threshold : No data available
pH : No data available

Melting point/range : No data available

Initial boiling point and boiling

range

Flash point : 37.8 - 60.0 °C

Method: Cleveland open cup

Evaporation rate No data available Flammability (solid, gas) No data available Upper explosion limit No data available Lower explosion limit No data available Vapour pressure No data available Relative vapour density No data available Relative density No data available 1.08 - 1.20 g/cm<sup>3</sup> Density

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, dynamic : No data available
Viscosity, kinematic : No data available



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#### **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

products

Thermal decomposition can lead to release of irritating gases

and vapors. carbon oxides

sulfur oxides

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Acute toxicity**

**Product:** 

Acute inhalation toxicity : Acute toxicity estimate : > 200 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 3,742 mg/kg

Method: Calculation method

**Acute toxicity** 

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

**Acute toxicity** 

naphtha (petroleum), hydrotreated heavy:

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



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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.

**Acute toxicity** 

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

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.

**Acute toxicity** 

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.

**Acute toxicity** 

benzene:

Acute oral toxicity : LD50 (Rat, male): > 2,000 mg/kg



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Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, female): 43.767 mg/l, 13700 ppm

Exposure time: 4 h

Test atmosphere: vapour

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 8,260 mg/kg

Method: OECD Test Guideline 402

Acute toxicity quartz (SiO2):

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

solvent naphtha (petroleum), light arom.:

Result: Skin irritation

#### Skin corrosion/irritation

## 1,2,4-trimethylbenzene:

Result: Skin irritation

#### Skin corrosion/irritation

#### benzene:

Species: Rabbit Exposure time: 4 h

Method: OECD Test Guideline 404

Result: Irritating to skin.

## Serious eye damage/eye irritation

## Product:

Result: irritating

#### Serious eye damage/eye irritation

## **Components:**

## 1,2,4-trimethylbenzene:

Result: irritating



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## Serious eye damage/eye irritation

benzene: Species: Rabbit

Result: Irritating to eyes.

## Germ cell mutagenicity

## **Components:**

benzene:

Germ cell mutagenicity-

: In vivo tests showed mutagenic effects

Assessment

Carcinogenicity

**Components:** 

benzene:

Carcinogenicity -

: Human carcinogen.

Assessment

**IARC** 

Group 1: Carcinogenic to humans

benzene

71-43-2

quartz (SiO2)

14808-60-7

**OSHA** OSHA specifically regulated carcinogen

benzene

71-43-2

**NTP** 

Known to be human carcinogen

benzene

71-43-2

quartz (SiO2)

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

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

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.

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### STOT - repeated exposure

#### **Product:**

Assessment: Causes damage to organs through prolonged or repeated exposure.

#### STOT - repeated exposure

### **Components:**

benzene:

Exposure routes: Ingestion

Target Organs: hematopoietic system

Assessment: Causes damage to organs through prolonged or repeated exposure.

Exposure routes: inhalation (vapour)
Target Organs: hematopoietic system

Assessment: Causes damage to organs through prolonged or repeated exposure.

## **Aspiration toxicity**

#### **Product:**

No aspiration toxicity classification

#### **Components:**

## naphtha (petroleum), hydrotreated heavy:

May be fatal if swallowed and enters airways.

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

May be fatal if swallowed and enters airways.

## 1,2,4-trimethylbenzene:

May be fatal if swallowed and enters airways.

benzene:

May be fatal if swallowed and enters airways.

## **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

## **Product:**

### **Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

## **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 Exposure time: 48 h



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Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae : 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

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

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 : 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

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



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Method: OECD Test Guideline 202

Toxicity to algae 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.

benzene:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 5.3 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 10 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae EC50 (Selenastrum capricornutum (green algae)): 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

EC10 (Pimephales promelas (fathead minnow)): 0.8 mg/l

Exposure time: 32 d

Toxicity to daphnia and other :

aquatic invertebrates

(Chronic toxicity)

EC10 (Ceriodaphnia dubia): 3 mg/l

Exposure time: 7 d

Toxicity to microorganisms IC50 (activated sludge): 13 mg/l

Exposure time: 24 h

quartz (SiO2):

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.

solvent naphtha (petroleum), light arom.:

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Biodegradability : Result: Inherently biodegradable.

1,2,4-trimethylbenzene:

Biodegradability : Result: Biodegradable

benzene:

Biodegradability : Biodegradation: 100 %

Bioaccumulative potential

Components:

1,2,4-trimethylbenzene:

Partition coefficient: n-

octanol/water

log Pow: 3.63

benzene:

Bioaccumulation : Bioconcentration factor (BCF): 13

Partition coefficient: n-

octanol/water

log Pow: 2.13 (25 °C)

pH: 7

**Mobility in soil**No data available

Other adverse effects

**Product:** 

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

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).

Additional ecological

information

No data available

#### **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.



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#### **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 No substances are subject to a

Chemicals Significant New Use Rule.

U.S. Toxic Substances Control Act (TSCA) Section No substances are subject to TSCA

12(b) Export Notification (40 CFR 707, Subpart D) 12(b) export notification requirements.

## **EPCRA - Emergency Planning and Community Right-to-Know Act**

## **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
benzene	71-43-2	10	1000

## **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.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Germ cell mutagenicity

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

: This material does not contain any components with a section **SARA 302** 

302 EHS TPQ.

**SARA 313** The following components are subject to reporting levels

established by SARA Title III, Section 313:

1,2,4-trimethylbenzene 1 - 5 % 95-63-6

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benzene 71-43-2 0.1 - 1 %

#### 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 benzene, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

TSCA : All substances listed as active on the TSCA inventory

DSL : All components of this product are on the Canadian DSL

### **SECTION 16. OTHER INFORMATION**

### **Further information**

Revision Date : 02/16/2021

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.