# **MBCC** GROUP

# MasterSeal M 200SLV

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#### **SECTION 1. IDENTIFICATION**

Product name : MasterSeal M 200SLV

Product code : 00000000055510704 00000000055510704

Other means of identification : No data available

Manufacturer or supplier's details

Company name of supplier : MBSCS Canada, Inc.

Address : 7111 Syntex Drive, 3rd Floor

Mississauga ON L5N 8C3

Emergency telephone : ChemTel: +1-813-248-0585;

Recommended use of the chemical and restrictions on use

Recommended use : Product for construction chemicals

Restrictions on use : Reserved for industrial and professional use.

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the Hazardous Products Regulations

Flammable liquids : Category 3

Acute toxicity (Inhalation -

vapour)

Category 3

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 1B

Specific target organ toxicity

- repeated exposure

Category 1 (Central nervous system)

**GHS** label elements

Hazard pictograms :







Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapour.

H331 Toxic if inhaled.

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H334 May cause allergy or asthma symptoms or breathing diffi-

culties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H372 Causes damage to organs (Central nervous system)

through prolonged or repeated exposure. H360 May damage fertility or the unborn child.

#### **Precautionary Statements**

#### Prevention:

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P260 Do not breathe dust or mist.

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P202 Do not handle until all safety precautions have been read and understood.

P243 Take action to prevent static discharges.

P284 In case of inadequate ventilation wear respiratory protection

P264 Wash face, hands and any exposed skin thoroughly after handling.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P242 Use only non-sparking tools.

P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting equipment.

#### Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

P311 Call a POISON CENTER or doctor/ physician.

#### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P233 Keep container tightly closed.

P405 Store locked up.

### Disposal:

P501 Dispose of contents/container to appropriate hazardous waste collection point.

#### Other hazards

CONTAINS ISOCYANATES. INHALATION OF ISOCYANATE MISTS OR VAPORS MAY CAUSE RESPIRATORY IRRITATION, BREATHLESSNESS, CHEST DISCOMFORT AND



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REDUCED PULMONARY FUNCTION. OVEREXPOSURE WELL ABOVE THE PEL MAY RESULT IN BRONCHITIS, BRONCHIAL SPASMS AND PULMONARY EDEMA. LONG-TERM EXPOSURE TO ISOCYANATES HAS BEEN REPORTED TO CAUSE LUNG DAMAGE, INCLUDING REDUCED LUNG FUNCTION WHICH MAY BE PERMANENT. ACUTE OR CHRONIC OVEREXPOSURE TO ISOCYANATES MAY CAUSE SENSITIZATION IN SOME INDIVIDUALS, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING. ANIMAL TESTS INDICATE THAT SKIN CONTACT MAY PLAY A ROLE IN CAUSING RESPIRATORY SENSITIZATION.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : isocyanate

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Stoddard solvent	8052-41-3	>= 0 - < 20
toluene-2,6-diisocyanate	91-08-7	>= 0.3 - < 3
trimethoxy(3-	2530-83-8	>= 0 - < 1
(oxiranylmethoxy)propyl)silane		
4-methyl-m-phenylene diisocyanate	584-84-9	>= 0.1 - < 0.3
dibutyltin dilaurate	77-58-7	>= 0 - < 0.3
Limestone	1317-65-3	>= 10 - < 50
Titanium dioxide	13463-67-7	>= 0 - < 5
Calcium sulphate	7778-18-9	>= 0 - < 5
talc	14807-96-6	>= 0 - < 15

### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled : Call a physician or poison control center immediately.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If on skin, rinse well with water.

If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

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Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

Toxic if inhaled.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

Suspected of causing cancer.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated

exposure.

Notes to physician : Treat symptomatically.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire

fighting

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

courses.

Further information : 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 sepa-

rately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment :

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emer-

gency procedures

Use personal protective equipment.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapors accumulating to form explosive concentra-

tions. Vapors can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

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



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/ national regulations (see section 13).

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against :

fire and explosion

Do not spray on a naked flame or any incandescent material.

Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Keep away from open flames, hot surfaces and sources of

ignition.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication 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 sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Conditions for safe storage : Prevent

Prevent unauthorized access.

no smoking

Keep container tightly closed in a dry 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.

Further information on stor-

age conditions

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.

Protect from direct sunlight.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

# **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

# Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
dibutyltin dilaurate	77-58-7	TWA value	0.1 mg/m3 (tin (Sn))	ACGIHTLV



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		STEL value	0.2 mg/m3 (tin (Sn))	ACGIHTLV
		REL value	0.1 mg/m3 (tin (Sn))	NIOSH
		PEL	0.1 mg/m3 (tin (Sn))	29 CFR 1910.1000 (Table Z-1)
		TWA value	0.1 mg/m3 (tin (Sn))	29 CFR 1910.1000 (Table Z-1-A)
		TWA	0.1 mg/m3 (Tin)	CA AB OEL
		STEL	0.2 mg/m3 (Tin)	CA AB OEL
		TWAEV	0.1 mg/m3 (Tin)	CA QC OEL
		STEV	0.2 mg/m3 (Tin)	CA QC OEL
		TWA	0.1 mg/m3 (Tin)	CA BC OEL
		STEL	0.2 mg/m3 (Tin)	CA BC OEL
		TWA	0.1 mg/m3 (Tin)	CA ON OEL
		TWA	0.1 mg/m3 (Tin)	ACGIH
		STEL	0.2 mg/m3 (Tin)	ACGIH
toluene-2,6-diisocyanate	91-08-7	STEL value (Inhalable fraction and vapor)	0.005 ppm	ACGIHTLV
		Skin Designation (Inhalable fraction and vapor)		ACGIHTLV
		TWA value (Inhalable fraction and vapor)	0.001 ppm	ACGIHTLV
		TWA	0.005 ppm	CA BC OEL
		С	0.01 ppm	CA BC OEL
		TWA	0.005 ppm 0.04 mg/m3	CA AB OEL
		(c)	0.02 ppm 0.1 mg/m3	CA AB OEL
		TWA	0.005 ppm	CA ON OEL
		С	0.02 ppm	CA ON OEL
		TWA (Inhalable fraction and vapor)	0.001 ppm	ACGIH
		STEL (Inhalable able fraction	0.005 ppm	ACGIH



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		and vapor)	1	
4-methyl-m-phenylene diisocyanate	584-84-9	TWA value (Inhalable fraction and vapor)	0.001 ppm	ACGIHTLV
		Skin Desig- nation (In- halable frac- tion and va- por)		ACGIHTLV
		STEL value (Inhalable fraction and vapor)	0.005 ppm	ACGIHTLV
		CLV	0.02 ppm 0.14 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA	0.005 ppm	CA BC OEL
		С	0.01 ppm	CA BC OEL
		TWA	0.005 ppm 0.04 mg/m3	CA AB OEL
		(c)	0.02 ppm 0.1 mg/m3	CA AB OEL
		TWA	0.005 ppm	CA ON OEL
		С	0.02 ppm	CA ON OEL
		TWA (Inhal- able fraction and vapor)	0.001 ppm	ACGIH
		STEL (Inhal- able fraction and vapor)	0.005 ppm	ACGIH
Limestone	1317-65-3	REL value (Respirable)	5 mg/m3	NIOSH
		REL value (Total)	10 mg/m3	NIOSH
		PEL (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
		PEL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA value (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	10 mg/m3	CA AB OEL
		TWAEV (to- tal dust)	10 mg/m3	CA QC OEL
		TWA (Total dust)	10 mg/m3	CA BC OEL
		TWA (respirable dust	3 mg/m3	CA BC OEL



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		fraction)		
		STEL	20 mg/m3	CA BC OEL
Calcium sulphate	7778-18-9	TWA value (Inhalable fraction)	10 mg/m3	ACGIHTLV
		REL value (Respirable)	5 mg/m3	NIOSH
		REL value (Total)	10 mg/m3	NIOSH
		PEL (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
		PEL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA value (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA (Inhal- able)	10 mg/m3	CA BC OEL
		TWAEV (respirable dust)	5 mg/m3	CA QC OEL
		TWAEV (to- tal dust)	10 mg/m3	CA QC OEL
		TWA	10 mg/m3 (Calcium)	CA AB OEL
		TWA (Inhal- able particu- late matter)	10 mg/m3 (Calcium)	ACGIH
Titanium dioxide	13463-67-7	TWA value	10 mg/m3	ACGIHTLV
		PEL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value (Total dust)	10 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	10 mg/m3	CA AB OEL
		TWA (Total dust)	10 mg/m3	CA BC OEL
		TWA (respirable dust fraction)	3 mg/m3	CA BC OEL
		TWAEV (to- tal dust)	10 mg/m3	CA QC OEL
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH
talc	14807-96-6	TWA value (Respirable fraction)	2 mg/m3	ACGIHTLV
		TWAEV (fi-	1 fibres per cubic	CA QC OEL



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		bers)	centimeter	
		TWÁEV	3 mg/m3	CA QC OEL
		(respirable	_	
		dust)		
		TWA	0.1 fibres per	CA BC OEL
			cubic centimeter	
		TWA (Res-	2 mg/m3	CA AB OEL
		pirable par-		
		ticulates)		
		TWA (Res-	2 mg/m3	CA BC OEL
		pirable)	- 411	0.00.00
		TWA	2 fibres per cubic centimeter	CA ON OEL
		TWA (Res-	2 mg/m3	CA ON OEL
		pirable frac-		
		tion)		
		TWA	0.1 fibres per	ACGIH
			cubic centimeter	
		TWA (Res-	2 mg/m3	ACGIH
		pirable par-		
		ticulate mat- ter)		
Stoddard solvent	8052-41-3	TWA value	100 ppm	ACGIHTLV
Cloddai'd Colvell	0002 11 0	REL value	350 mg/m3	NIOSH
		Ceil_Time	1,800 mg/m3	NIOSH
		PEL	500 ppm	29 CFR
			2,900 mg/m3	1910.1000
			, , , , , , , , , , , , , , , , , , ,	(Table Z-1)
		TWA value	100 ppm	29 CFR
			525 mg/m3	1910.1000
				(Table Z-1-A)
		TWA	100 ppm	CA AB OEL
			572 mg/m3	
		TWA	290 mg/m3	CA BC OEL
		STEL	580 mg/m3	CA BC OEL
		TWAEV	100 ppm	CA QC OEL
			525 mg/m3	
		TWA	525 mg/m3	CA ON OEL
		TWA	100 ppm	ACGIH

**Engineering measures** : Ensure adequate ventilation.

# Personal protective equipment

Respiratory protection

When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

When atmospheric levels may exceed the occupational exposure limit (PEL or TLV) NIOSH-certified air-purifying respirators equipped with an organic vapor sorbent and particulate filter can be used as long as appropriate precautions and change out schedules are in place.

For emergency or non-routine, high exposure situations, including confined space entry, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus



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(SCBA) or a full facepiece pressure demand supplied-air

respirator (SAR) with escape provisions.

Hand protection

Remarks : Chemical resistant protective gloves should be worn to pre-

vent all skin contact. Suitable materials may include chloroprene rubber (Neoprene) nitrile rubber (Buna N) chlorinated polyethylene polyvinylchloride (Pylox) butyl rubber fluoroelastomer (Viton) depending upon conditions of use. Manufacturer's directions for use should be observed because of great

diversity of types.

Eye protection : Tightly fitting safety goggles (chemical goggles).

Wear face shield if splashing hazard exists.

Skin and body protection : Cover as much of the exposed skin as possible to prevent all

skin contact.

Suitable materials may include

saran-coated material

depending upon conditions of use.

Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Do not inhale dust/fumes/aerosols.

Avoid contact with the skin, eyes and clothing.

Avoid exposure - obtain special instructions before use. Handle in accordance with good building materials hygiene

and safety practice.

Wearing of closed work clothing is recommended.

Hygiene measures : Avoid contact with skin, eyes and clothing.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and immediately after handling

the product.

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

Appearance : liquid

Color : gray

Odor : solvent

Odor Threshold : not determined

pH : neutral to slightly alkaline

Melting point : No applicable information available.

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Freezing point No data available

Boiling point : approx. 175 °C

Flash point : 43.3 °C

Evaporation rate : No applicable information available.

Flammability (liquids) : Flammable liquid and vapour.

Upper explosion limit / Upper

flammability limit

7.0 %(V)

Lower explosion limit / Lower

flammability limit

1.0 %(V)

Vapor pressure : No data available

Relative vapor density : No applicable information available.

Relative density : No applicable information available.

Density : approx. 1.16 g/cm3 (20 °C)

Solubility(ies)

Water solubility : slightly soluble (20 °C)

Solubility in other solvents : No applicable information available.

Partition coefficient: n-

octanol/water

not applicable for mixtures

Autoignition temperature : No data available

Decomposition temperature : No decomposition if stored and handled as pre-

scribed/indicated.

Viscosity

Viscosity, dynamic : approx. 4,000 - 9,000 mPa.s

Viscosity, kinematic : No applicable information available.

Explosive properties : Not explosive

Not explosive

Oxidizing properties : not fire-propagating

Sublimation point : No applicable information available.

Molecular weight : No data available

Metal corrosion rate : Corrosive effects to metal are not anticipated.



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#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No hazardous reactions if stored and handled as pre-

scribed/indicated.

Chemical stability : The product is stable if stored and handled as pre-

scribed/indicated.

Possibility of hazardous reac-

tions

No decomposition if stored and applied as directed.

Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong acids

Strong bases

Strong oxidizing agents Strong reducing agents

Hazardous decomposition

products

No hazardous decomposition products if stored and handled

as prescribed/indicated.

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

## **Acute toxicity**

Toxic if inhaled.

### **Product:**

Acute inhalation toxicity : ATE: 5.73 mg/l

Remarks: Determined for vapor

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

# Respiratory or skin sensitization

# Skin sensitization

May cause an allergic skin reaction.

### Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

# Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Suspected of causing cancer.

### Reproductive toxicity

May damage fertility or the unborn child.

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#### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Causes damage to organs (Central nervous system) through prolonged or repeated exposure.

### **Aspiration toxicity**

Not classified based on available information.

### **Further information**

**Product:** 

Remarks : Solvents may degrease the skin.

Remarks : The product has not been tested. The statements on toxicolo-

gy have been derived from the properties of the individual

components.

#### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

### **Product:**

### **Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### **Components:**

### dibutyltin dilaurate:

M-Factor (Acute aquatic tox- : 1

icity)

### Persistence and degradability

No data available

### **Bioaccumulative potential**

#### **Components:**

#### Stoddard solvent:

Partition coefficient: n- : log Pow: 3.5 - 6.4 (20 °C)

octanol/water Method: Partition coefficient (n-octanol/water), HPLC method.

toluene-2,6-diisocyanate:

Partition coefficient: n- : log Pow: 3.74

octanol/water Method: other (calculated)

dibutyltin dilaurate:

Partition coefficient: n- : log Pow: 3.17 (20.8 °C)

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octanol/water pH: 6.1 - 6.3

Method: Partition coefficient (n-octanol/water), Shake-flask

method GLP: yes

Mobility in soil

No data available

Other adverse effects

**Product:** 

Additional ecological infor-

mation

There is a high probability that the product is not acutely

harmful to aquatic organisms.

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual

components.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Dispose of in accordance with national, state and local regula-

tions.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not discharge into drains/surface waters/groundwater.

Contaminated packaging : Contaminated packaging should be emptied as far as possible

and disposed of in the same manner as the sub-

stance/product.

Do not burn, or use a cutting torch on, the empty drum.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

**UNRTDG** 

UN number : UN 1263
Proper shipping name : PAINT
Class : 3
Packing group : III
Labels : 3

**IATA-DGR** 

UN/ID No. : UN 1263
Proper shipping name : PAINT
Class : 3
Packing group : III

Labels : Flammable Liquids

Packing instruction (cargo

aircraft)

Packing instruction (passen-

ger aircraft)

366 355

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**IMDG-Code** 

UN number : UN 1263 Proper shipping name : PAINT

Class : 3
Packing group : III
Labels : 3

EmS Code : F-E, S-E Marine pollutant : no

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **Domestic regulation**

**TDG** 

UN number : UN 1263 Proper shipping name : PAINT

Class : 3
Packing group : III
Labels : 3
ERG Code : 128
Marine pollutant : no

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### **SECTION 15. REGULATORY INFORMATION**

The ingredients of this product are reported in the following inventories:

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

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.

**TSCA list** 

The following substance(s) is/are subject to a Significant New Use Rule: toluene-2,6-diisocyanate 91-08-7

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

Full text of other abbreviations

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1-A (29 CFR 1910.1000)

-Δ)

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR

1) 1910.1000

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

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**ACGIHTLV** American Conference of Governmental Industrial Hygienists -

threshold limit values (US)

CA AB OEL Canada. Alberta, Occupational Health and Safety Code (table

2: OEL)

Canada. British Columbia OEL CA BC OEL

Ontario Table of Occupational Exposure Limits made under CA ON OEL

the Occupational Health and Safety Act.

Québec. Regulation respecting occupational health and safe-CA QC OEL

ty, Schedule 1, Part 1: Permissible exposure values for air-

borne contaminants

NIOSH NIOSH Pocket Guide to Chemical Hazards (US)

29 CFR 1910.1000 (Table Z-Time Weighted Average (TWA):

1-A) / TWA value

29 CFR 1910.1000 (Table Z- :

1) / CLV

Ceiling Limit Value:

29 CFR 1910.1000 (Table Z- : Permissible exposure limit

1) / PEL

ACGIH / TWA 8-hour, time-weighted average ACGIH / STEL Short-term exposure limit

Skin Designation: ACGIHTLV / Skin Designa-

Short Term Exposure Limit (STEL): ACGIHTLV / STEL value Time Weighted Average (TWA): ACGIHTLV / TWA value CA AB OEL / TWA 8-hour Occupational exposure limit CA AB OEL / STEL 15-minute occupational exposure limit CA AB OEL / (c) ceiling occupational exposure limit CA BC OEL / TWA 8-hour time weighted average CA BC OEL / STEL short-term exposure limit

CA BC OEL / C ceiling limit CA ON OEL / C Ceiling Limit (C)

Time-Weighted Average Limit (TWA) CA ON OEL / TWA CA QC OEL / TWAEV Time-weighted average exposure value

Short-term exposure value CA QC OEL / STEV

Ceiling Limit Value and Time Period (if specified): NIOSH / Ceil Time

NIOSH / REL value Recommended exposure limit (REL):

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New



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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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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