

MasterSeal P 222

Version 1.0 Revision Date: 09/02/2020 SDS Number: 000000631960 Date of last issue: -
Date of first issue: 09/02/2020

SECTION 1. IDENTIFICATION

Product name : MasterSeal P 222
Product code : 000000000050394883 000000000050394883

Manufacturer or supplier's details

Company name of supplier : Master Builders-Construction Systems
US, LLC
Address : 23700 CHAGRIN BLVD
Beachwood OH 44122
Emergency telephone : ChemTel: +1-813-248-0585 USA: +1-800-255-3924 Contract
Number MIS9240420

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 29 CFR 1910.1200**

FLAMMABLE LIQUIDS : 2
Acute toxicity (Inhalation) : 4
Skin corrosion/irritation : 2
Serious eye damage/eye irritation : Category 2A
Respiratory sensitization : Category 1
Skin sensitization : Category 1
Reproductive toxicity : 2
Specific target organ toxicity - single exposure : 3
Specific target organ toxicity - repeated exposure : 2 (Lung, Auditory organ)
Short-term (acute) aquatic hazard : 3

GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapour.

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H319 Causes serious eye irritation.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs (Lung, Auditory organ) through prolonged or repeated exposure.
H402 Harmful to aquatic life.

Precautionary Statements :

Prevention:

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P271 Use only outdoors or in a well-ventilated area.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust or mist.
P243 Take action to prevent static discharges.
P273 Avoid release to the environment.
P284 In case of inadequate ventilation wear respiratory protection.
P201 Obtain special instructions before use.
P241 Use explosion-proof [electrical/ ventilating/ lighting/ .?] equipment.
P202 Do not handle until all safety precautions have been read and understood.
P272 Contaminated work clothing should not be allowed out of the workplace.
P240 Ground and bond container and receiving equipment.
P242 Use only non-sparking tools.
P264 Wash face, hands and any exposed skin thoroughly after handling.

Response:

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
P314 Get medical advice/ attention if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

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Storage:

P233 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 appropriate hazardous waste collection point.

Other hazards

No data available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : No data available.

Components

Chemical name	CAS-No.	Concentration (% w/w)
Methylethylketone	78-93-3	>= 10 - < 15
ethylbenzene	100-41-4	>= 3 - < 5
Diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8	>= 10 - < 15
toluene	108-88-3	>= 0 - < 0.2
xylene	1330-20-7	>= 15 - < 20
methylenediphenyl diisocyanate	26447-40-5	>= 3 - < 10

SECTION 4. FIRST AID MEASURES

- General advice : First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing. Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended.
- If inhaled : Keep patient calm, remove to fresh air, seek medical attention. Call a physician or poison control center immediately. If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Immediately wash thoroughly with soap and water, seek medical attention. If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
- In case of eye contact : Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.

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If swallowed	:	<p>If eye irritation persists, consult a specialist.</p> <p>Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.</p> <p>Keep respiratory tract clear.</p> <p>Do not give milk or alcoholic beverages.</p> <p>Never give anything by mouth to an unconscious person.</p> <p>If symptoms persist, call a physician.</p> <p>Take victim immediately to hospital.</p>
Most important symptoms and effects, both acute and delayed	:	<p>Causes skin irritation.</p> <p>May cause an allergic skin reaction.</p> <p>Causes serious eye irritation.</p> <p>Harmful if inhaled.</p> <p>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>May cause respiratory irritation.</p> <p>Suspected of damaging the unborn child.</p>
Notes to physician	:	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	<p>Water spray</p> <p>Foam</p> <p>Dry powder</p> <p>Carbon dioxide (CO₂)</p>
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.
Hazardous combustion products	:	<p>nitrogen oxides</p> <p>fumes/smoke</p> <p>carbon black</p> <p>vapor</p> <p>isocyanate</p>
Further information	:	<p>Keep containers cool by spraying with water if exposed to fire.</p> <p>Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.</p> <p>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.</p> <p>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.</p> <p>For safety reasons in case of fire, cans should be stored separately in closed containments.</p> <p>Use a water spray to cool fully closed containers.</p>
Special protective equipment for fire-fighters	:	<p>Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.</p> <p>Wear self-contained breathing apparatus for firefighting if necessary.</p>

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	<p>Clear area.</p> <p>Ensure adequate ventilation.</p> <p>Wear suitable personal protective clothing and equipment.</p>
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Use personal protective equipment.
 Ensure adequate ventilation.
 Remove all sources of ignition.
 Evacuate personnel to safe areas.
 Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions : Do not discharge into drains/surface waters/groundwater.

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 : Dike spillage.

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).

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).
 Use only explosion-proof equipment.
 Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Provide suitable exhaust ventilation at the processing machines.
 Ensure thorough ventilation of stores and work areas.
 Avoid aerosol formation.
 When handling heated product, vapours of the product should be ventilated, and respiratory protection used.
 Wear respiratory protection when spraying.
 Danger of bursting when sealed gastight.
 Protect against moisture.
 If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.
 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 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

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- 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 : 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 storage 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.
- Materials to avoid : Observe VCI storage rules.
- Recommended storage temperature : 32 °F / 0 °C
- Further information on storage stability : Minimum storage temperature:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methylethylketone	78-93-3	STEL value	300 ppm	ACGIHTLV
		TWA value	200 ppm	ACGIHTLV
		REL value	200 ppm 590 mg/m3	NIOSH
		STEL value	300 ppm 885 mg/m3	NIOSH
		PEL	200 ppm 590 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	200 ppm 590 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		STEL value	300 ppm 885 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
		TWA	200 ppm 590 mg/m3	NIOSH REL
		ST	300 ppm 885 mg/m3	NIOSH REL
		TWA	200 ppm 590 mg/m3	OSHA Z-1
		TWA	200 ppm	OSHA P0

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			590 mg/m3	
		STEL	300 ppm 885 mg/m3	OSHA P0
ethylbenzene	100-41-4	TWA value	20 ppm	ACGIHTLV
		STEL value	125 ppm 545 mg/m3	NIOSH
		REL value	100 ppm 435 mg/m3	NIOSH
		PEL	100 ppm 435 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	100 ppm 435 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		STEL value	125 ppm 545 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	NIOSH REL
		ST	125 ppm 545 mg/m3	NIOSH REL
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0
Diphenylmethane-4,4'- diisocyanate (MDI)	101-68-8	TWA value	0.005 ppm	ACGIHTLV
		REL value	0.005 ppm 0.05 mg/m3	NIOSH
		Ceil_Time	0.020 ppm 0.2 mg/m3	NIOSH
		CLV	0.02 ppm 0.2 mg/m3	29 CFR 1910.1000 (Table Z-1)
		CLV	0.02 ppm 0.2 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	0.005 ppm	ACGIH
		C	0.02 ppm 0.2 mg/m3	OSHA Z-1
		C	0.02 ppm 0.2 mg/m3	OSHA P0
		TWA	0.005 ppm 0.05 mg/m3	NIOSH REL
		C	0.02 ppm 0.2 mg/m3	NIOSH REL
toluene	108-88-3	TWA value	20 ppm	ACGIHTLV
		REL value	100 ppm 375 mg/m3	NIOSH
		STEL value	150 ppm	NIOSH

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			560 mg/m3	
		TWA value	100 ppm 375 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		STEL value	150 ppm 560 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		max. conc.	500 ppm	29 CFR 1910.1000 (Table Z-2)
		CLV	300 ppm	29 CFR 1910.1000 (Table Z-2)
		TWA value	200 ppm	29 CFR 1910.1000 (Table Z-2)
		TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m3	NIOSH REL
		ST	150 ppm 560 mg/m3	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm (10 minutes)	OSHA Z-2
		TWA	100 ppm 375 mg/m3	OSHA P0
		STEL	150 ppm 560 mg/m3	OSHA P0
xylene	1330-20-7	TWA value	100 ppm	ACGIHTLV
		STEL value	150 ppm	ACGIHTLV
		PEL	100 ppm 435 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	100 ppm 435 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		STEL value	150 ppm 655 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		REL value	100 ppm 435 mg/m3	NIOSH
		STEL value	150 ppm 655 mg/m3	NIOSH
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0

Engineering measures : No applicable information available.

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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 face-piece pressure demand self-contained breathing apparatus (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 prevent 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.
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Tightly fitting safety goggles (chemical goggles).
Wear face shield if splashing hazard exists.
Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

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 : Wear protective clothing as necessary to prevent contact.
Eye wash fountains and safety showers must be easily accessible.
Observe the appropriate PEL or TLV value.

Hygiene measures : Wash soiled clothing immediately.
Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : amber

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Odor	:	solvent
Odor Threshold	:	No data available
pH	:	neutral to slightly alkaline
Melting point	:	No applicable information available.
boiling temperature	:	approx. 174.99 - 396.00 °F / 79.44 - 202.22 °C
Flash point	:	37.00 °F / 2.78 °C
Evaporation rate	:	No applicable information available.
Flammability (solid, gas)	:	Highly flammable.
Upper explosion limit / Upper flammability limit	:	11.5 %(V)
Lower explosion limit / Lower flammability limit	:	1.0 %(V)
Vapor pressure	:	No data available
Relative vapor density	:	Heavier than air.
Relative density	:	1.04
Density	:	approx. 1.04 g/cm ³ (68 °F / 20 °C)
Solubility(ies)		
Water solubility	:	slightly soluble (68 °F / 20 °C)
Solubility in other solvents	:	No applicable information available.
Autoignition temperature	:	No data available
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, kinematic	:	No applicable information available.
Explosive properties	:	Not explosive Not explosive
Oxidizing properties	:	Based on its structural properties the product is not classified as oxidizing.
Sublimation point	:	No applicable information available.
Molecular weight	:	No data available

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

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	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**

Harmful if inhaled.

Product:

Acute oral toxicity	:	ATE: > 5,000 mg/kg
Acute inhalation toxicity	:	ATE: 12.5 mg/l Remarks: Determined for vapor ATE: > 5.0000 mg/l Remarks: Determined for mist
Acute dermal toxicity	:	ATE: > 5,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : May cause irreversible eye damage.

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.

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Product:

Remarks : Causes sensitization.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Suspected of damaging the unborn child.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration hazard expected.

Further information**Product:**

Remarks : The product has not been tested. The statement has been derived from the properties of the individual components.

Remarks : Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential**Components:****Methylethylketone:**

Partition coefficient: n-octanol/water : log Pow: 0.29
Method: other (measured)
GLP: no data
Remarks: Information taken from reference works and the literature.

ethylbenzene:

Partition coefficient: n- : Pow: 4,170 (68 °F / 20 °C)

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octanol/water

log Pow: 3.6 (68 °F / 20 °C)
pH: 7.8
Method: Partition coefficient
GLP: yes

Diphenylmethane-4,4'-diisocyanate (MDI):

Partition coefficient: n-octanol/water : log Pow: 4.51 (72 °F / 22 °C)
pH: 7
Method: Partition coefficient (n-octanol/water), HPLC method.
GLP: no

toluene:

Partition coefficient: n-octanol/water : log Pow: 2.73 (68 °F / 20 °C)
pH: 7
Method: other (measured)
GLP: no data
Remarks: Information taken from reference works and the literature.

xylene:

Partition coefficient: n-octanol/water : log Pow: 3.12 - 3.20 (77 °F / 25 °C)
Method: other (calculated)
GLP: no
Remarks: Information taken from reference works and the literature.

methylenediphenyl diisocyanate:

Partition coefficient: n-octanol/water : log Pow: 4.51 (72 °F / 22 °C)
pH: 7
Method: Partition coefficient (n-octanol/water), HPLC method.
GLP: no

Mobility in soil

No data available

Other adverse effects**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of in accordance with national, state and local regulations.
Do not discharge into drains/surface waters/groundwater.

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Contaminated packaging : Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(XYLENE, DIPHENYLMETHANDIISOCYANATE, ISOMERES
UND HOMOLOGUES)
Class : 3
Packing group : II
Labels : 3

IATA-DGR

UN/ID No. : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(XYLENE, METHYLETHYLKETONE)
Class : 3
Packing group : II
Labels : Flammable Liquids
Packing instruction (cargo
aircraft) : 364
Packing instruction (passen-
ger aircraft) : 353

IMDG-Code

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(XYLENE, METHYLETHYLKETONE)
Class : 3
Packing group : II
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**49 CFR**

UN/ID/NA number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(XYLENE, METHYLETHYLKETONE)
Class : 3
Packing group : II
Labels : FLAMMABLE LIQUID
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

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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8
xylene	1330-20-7
Isocyanic acid, polymethylene-polyphenylene ester (P-MDI)	9016-87-9

The following components are subject to reporting levels established by SARA Title III, Section 313:

ethylbenzene	100-41-4
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US State Regulations**Pennsylvania Right To Know**

ethylbenzene	100-41-4
Diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8
xylene	1330-20-7
benzene	71-43-2

New Jersey Right To Know

Methylethylketone	78-93-3
ethylbenzene	100-41-4
Diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8
xylene	1330-20-7
toluene	108-88-3

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 ingredients of this product are reported in the following inventories:

TSCA : On the inventory, or in compliance with the inventory

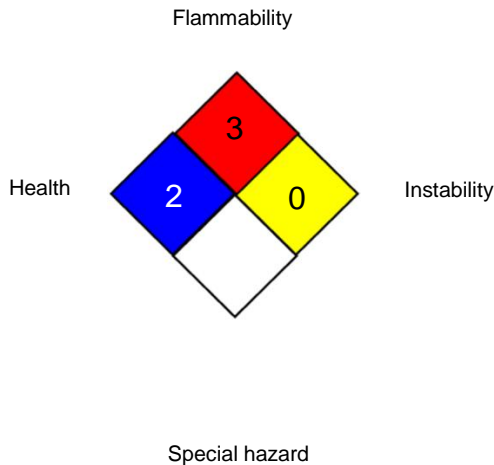
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SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH		
FLAMMABILITY		
PHYSICAL HAZARD		

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

- 29 CFR 1910.1000 (Table Z-1-A) : OSHA - Table Z-1-A (29 CFR 1910.1000)
- 29 CFR 1910.1000 (Table Z-1) : OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR 1910.1000
- 29 CFR 1910.1000 (Table Z-2) : OSHA Table Z-2 (Toxic and Hazardous Substances) 29 CFR 1910.1000
- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- ACGIHTLV : American Conference of Governmental Industrial Hygienists - threshold limit values (US)
- NIOSH : NIOSH Pocket Guide to Chemical Hazards (US)
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- OSHA Z-2 : USA. Occupational Exposure Limits (OSHA) - Table Z-2
- 29 CFR 1910.1000 (Table Z-1-A) / CLV : Ceiling Limit Value:
- 29 CFR 1910.1000 (Table Z-1-A) / STEL value : Short Term Exposure Limit (STEL):
- 29 CFR 1910.1000 (Table Z-1-A) / TWA value : Time Weighted Average (TWA):
- 29 CFR 1910.1000 (Table Z-1) / CLV : Ceiling Limit Value:
- 29 CFR 1910.1000 (Table Z-1) / PEL : Permissible exposure limit
- 29 CFR 1910.1000 (Table Z-2) / CLV : Ceiling Limit Value:
- 29 CFR 1910.1000 (Table Z-) : Time Weighted Average (TWA):

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2) / TWA value
29 CFR 1910.1000 (Table Z-2) / max. conc. : Maximum concentration:

ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
ACGIHTLV / STEL value : Short Term Exposure Limit (STEL):
ACGIHTLV / TWA value : Time Weighted Average (TWA):
NIOSH / Ceil_Time : Ceiling Limit Value and Time Period (if specified):
NIOSH / REL value : Recommended exposure limit (REL):
NIOSH / STEL value : Short Term Exposure Limit (STEL):
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
NIOSH REL / C : Ceiling value not be exceeded at any time.
OSHA P0 / TWA : 8-hour time weighted average
OSHA P0 / STEL : Short-term exposure limit
OSHA P0 / C : Ceiling limit
OSHA Z-1 / TWA : 8-hour time weighted average
OSHA Z-1 / C : Ceiling
OSHA Z-2 / TWA : 8-hour time weighted average
OSHA Z-2 / CEIL : Acceptable ceiling concentration
OSHA Z-2 / Peak : Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift

AICS - Australian Inventory of Chemical Substances; 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; TSCA - Toxic Substances Control Act (United States); UN - United Nations;

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UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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