



**Chemlease® MPP 2180**

Version	Revision Date:	Date of last issue: 07/15/2024	Print Date:
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**SECTION 1. IDENTIFICATION**

Product name : Chemlease® MPP 2180

**Manufacturer or supplier's details**

Company name of supplier : Chem-Trend LP  
1445 W McPherson Park Dr  
PO Box 860, Howell MI 48844-0860  
United States  
+1 517 546 4520

E-mail address of person responsible for the SDS : SDS-NA@chemtrend.com

Emergency telephone number : +1 517 545 7070

**Recommended use of the chemical and restrictions on use**

Recommended use : Primers

Restrictions on use : For industrial use only.

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Flammable liquids : Category 2

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitisation : Category 1

Reproductive toxicity : Category 1B

Specific target organ toxicity - single exposure : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

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Aspiration hazard : Category 1

**GHS label elements**

Hazard pictograms :   

Signal word : Danger

Hazard statements : Highly flammable liquid and vapour.  
Harmful if swallowed.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May damage fertility or the unborn child.  
Causes damage to organs.

Precautionary statements : **Prevention:**  
Obtain special instructions before use.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
IF exposed or concerned: Call a POISON CENTER/ doctor.  
Do NOT induce vomiting.  
In case of fire: Use alcohol-resistant foam, carbon dioxide or water mist to extinguish.

**Storage:**  
Store in a well-ventilated place. Keep cool.  
Store locked up.

**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

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

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Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Benzene, 1,2-dimethyl-	95-47-6	Trade secret ( $\geq 10 - < 30$ )
Naphtha (petroleum), light alkylate	64741-66-8	Trade secret ( $\geq 10 - < 30$ )
Methanol	67-56-1	Trade secret ( $\geq 5 - < 10$ )
3-butoxypropan-2-ol	5131-66-8	Trade secret ( $\geq 1 - < 5$ )
dibutyltin dilaurate	77-58-7	Trade secret ( $\geq 0.1 - < 1$ )

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

- If inhaled : Call a physician or poison control centre immediately.  
Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
Seek medical advice.
- If swallowed : Move the victim to fresh air.  
If accidentally swallowed obtain immediate medical attention.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.  
Aspiration hazard if swallowed - can enter lungs and cause damage.
- Most important symptoms : Aspiration may cause pulmonary oedema and pneumonitis.



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and effects, both acute and delayed

Central nervous system depression  
Can be absorbed through skin.  
Risk of product entering the lungs on vomiting after ingestion.  
Health injuries may be delayed.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Inhalation may provoke the following symptoms:  
Unconsciousness  
Dizziness  
Drowsiness  
Headache  
Nausea  
Tiredness  
Skin contact may provoke the following symptoms:  
Erythema

Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not let product enter drains.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Hazardous combustion products : Carbon oxides  
Metal oxides

Further information : Standard procedure for chemical fires.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Cool containers/tanks with water spray.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
Exposure to decomposition products may be a hazard to health.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and : Evacuate personnel to safe areas.  
Use personal protective equipment.



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- emergency procedures : Ensure adequate ventilation.  
Remove all sources of ignition.  
Do not breathe vapours or spray mist.  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.  
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 / national regulations (see section 13).  
Non-sparking tools should be used.

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Keep away from heat and sources of ignition.
- Advice on safe handling : Use only in an area containing explosion proof equipment.  
Do not use in areas without adequate ventilation.  
Do not breathe vapours or spray mist.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Keep away from fire, sparks and heated surfaces.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash hands and face before breaks and immediately after handling the product.  
Ensure all equipment is electrically grounded before beginning transfer operations.  
Do not get in eyes or mouth or on skin.  
Do not get on skin or clothing.  
Do not ingest.  
Do not use sparking tools.  
Do not enter areas where used or stored until adequately ventilated.  
Do not repack.  
Do not re-use empty containers.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Keep container closed when not in use.

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Conditions for safe storage : Store in original container.  
 Keep container closed when not in use.  
 Keep in a cool place away from oxidizing agents.  
 Keep in a dry, cool and well-ventilated place.  
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
 Store in accordance with the particular national regulations.  
 Keep in properly labelled containers.

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

**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Benzene, 1,2-dimethyl-	95-47-6	ST	150 ppm 655 mg/m3	NIOSH REL (2013-10-08)
		TWA	100 ppm 435 mg/m3	NIOSH REL (2013-10-08)
		TWA	100 ppm 435 mg/m3	OSHA Z-1 (2012-07-01)
		TWA	20 ppm	ACGIH (2023-01-01)
Naphtha (petroleum), light alkylate	64741-66-8	TWA	500 ppm 2,000 mg/m3	OSHA Z-1 (2007-01-01)
		TWA (Mist)	5 mg/m3	OSHA Z-1 (2018-03-15)
		TWA (Mist)	5 mg/m3	NIOSH REL (2019-10-04)
		ST (Mist)	10 mg/m3	NIOSH REL (2019-10-04)
Methanol	67-56-1	TWA	200 ppm	ACGIH (2013-03-01)
		STEL	250 ppm	ACGIH (2013-03-01)
		ST	250 ppm 325 mg/m3	NIOSH REL (2013-10-08)
		TWA	200 ppm 260 mg/m3	NIOSH REL (2013-10-08)
dibutyltin dilaurate	77-58-7	TWA	200 ppm 260 mg/m3	OSHA Z-1 (1997-08-04)
		TWA	0.1 mg/m3 (Tin)	OSHA Z-1 (1997-08-04)
		TWA	0.1 mg/m3 (Tin)	ACGIH (2013-03-01)
		STEL	0.2 mg/m3	ACGIH

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		(Tin)	(2013-03-01)
	TWA	0.1 mg/m <sup>3</sup> (Tin)	NIOSH REL (2013-10-08)

**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Benzene, 1,2-dimethyl-	95-47-6	Methylhippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI (2023-01-01)
Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI (2007-01-01)

**Engineering measures** : Use only in an area equipped with explosion proof exhaust ventilation.  
Handle only in a place equipped with local exhaust (or other appropriate exhaust).

**Personal protective equipment**

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hand protection

Remarks : Protective gloves The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Eye protection : Safety glasses with side-shields

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.



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Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid (68 °F / 20 °C)

Colour : colourless

Odour : solvent-like

Odour Threshold : No data available

pH : Not applicable

Melting point/range : No data available

Boiling point/boiling range : 142 °F / 61 °C

Flash point : 34.0 °F / 1.1 °C  
Method: Seta closed cup

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Self-ignition : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : 0.84 (68 °F / 20 °C)





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Bulk density : No data available

Solubility(ies)  
Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : < 20.5 mm<sup>2</sup>/s (104 °F / 40 °C)

Explosive properties : Not explosive

Oxidizing properties : No data available

Sublimation point : No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No hazards to be specially mentioned.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : Heat, flames and sparks.  
Strong sunlight for prolonged periods.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : >150 °C small quantities of formaldehyde may be formed.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**Product:**



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- Acute oral toxicity : Remarks: Effects due to ingestion may include:  
Harmful if swallowed.
- Symptoms: Central nervous system depression
- Acute toxicity estimate: 1,599 mg/kg  
Method: Calculation method
- Acute inhalation toxicity : Symptoms: Inhalation may provoke the following symptoms:,  
Local irritation, Respiratory disorders, Dizziness, Drowsiness,  
Vomiting, Fatigue, Vertigo, Central nervous system  
depression
- Acute toxicity estimate: 21.09 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method
- Remarks: Respiration of solvent vapour may cause dizziness.  
Harmful by inhalation.  
Toxic by inhalation.  
Irritating to respiratory system.
- Acute dermal toxicity : Symptoms: Redness, Local irritation
- Acute toxicity estimate: 2,109 mg/kg  
Method: Calculation method

**Components:**

**Benzene, 1,2-dimethyl-:**

- Acute oral toxicity : LD50 Oral (Rat, male): 6,602 mg/kg
- Acute inhalation toxicity : LC50 (Rat): > 10 - 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour
- Acute dermal toxicity : LD50 (Rabbit): > 1,000 - 2,000 mg/kg

**Naphtha (petroleum), light alkylate:**

- Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

**Methanol:**

- Acute oral toxicity : Assessment: The component/mixture is toxic after single  
ingestion.
- Acute inhalation toxicity : LC50 (Rat): 131.25 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

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Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.

**3-butoxypropan-2-ol:**

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

**dibutyltin dilaurate:**

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

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

**Skin corrosion/irritation**

**Product:**

Remarks : Irritating to skin.

**Components:**

**Benzene, 1,2-dimethyl-:**

Result : Skin irritation

**Naphtha (petroleum), light alkylate:**

Result : Skin irritation

**3-butoxypropan-2-ol:**

Result : Skin irritation

**Serious eye damage/eye irritation**

**Product:**

Remarks : Irritating to eyes.

**Components:**

**Benzene, 1,2-dimethyl-:**

Result : Eye irritation

**3-butoxypropan-2-ol:**

Result : Eye irritation

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**dibutyltin dilaurate:**

Result : Eye irritation

**Respiratory or skin sensitisation**

**Product:**

Remarks : This information is not available.

**Components:**

**dibutyltin dilaurate:**

Result : May cause sensitisation by skin contact.

**Germ cell mutagenicity**

**Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Components:**

**dibutyltin dilaurate:**

Germ cell mutagenicity - Assessment : In vitro tests showed mutagenic effects

**Carcinogenicity**

**Product:**

Remarks : No data available

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**IARC OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

**Product:**

Effects on fertility : Remarks: No data available

Effects on foetal : Remarks: No data available



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development

**Components:**

**dibutyltin dilaurate:**

Reproductive toxicity - Assessment : - Fertility -  
Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

**STOT - single exposure**

**Product:**

Remarks : No data available

**Components:**

**Benzene, 1,2-dimethyl-:**

Assessment : May cause respiratory irritation.

**Naphtha (petroleum), light alkylate:**

Assessment : May cause drowsiness or dizziness.

**Methanol:**

Assessment : Causes damage to organs.

**dibutyltin dilaurate:**

Assessment : Causes damage to organs.

**STOT - repeated exposure**

**Product:**

Remarks : No data available

**Components:**

**dibutyltin dilaurate:**

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

**Repeated dose toxicity**

**Product:**

Remarks : This information is not available.



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**Aspiration toxicity**

**Product:**

May be fatal if swallowed and enters airways.

**Components:**

**Benzene, 1,2-dimethyl-:**

May be fatal if swallowed and enters airways.

**Naphtha (petroleum), light alkylate:**

May be fatal if swallowed and enters airways.

**Further information**

**Product:**

Remarks : Risks of irreversible effects after a single exposure.  
Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.  
Possible risk of irreversible effects.  
Danger of very serious irreversible effects.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Toxicity to fish : Remarks: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available



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**Components:**

**Benzene, 1,2-dimethyl-:**

**Ecotoxicology Assessment**

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

**Naphtha (petroleum), light alkylate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 18.4 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.4 mg/l  
Exposure time: 48 h

**dibutyltin dilaurate:**

M-Factor (Acute aquatic toxicity) : 1

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**Persistence and degradability**

**Product:**

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

**Components:**

**Benzene, 1,2-dimethyl-:**

Biodegradability : Result: Not readily biodegradable.

**Naphtha (petroleum), light alkylate:**

Biodegradability : Result: Not readily biodegradable.

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**Methanol:**

Biodegradability : Result: Readily biodegradable.

**3-butoxypropan-2-ol:**

Biodegradability : Result: Readily biodegradable.

**dibutyltin dilaurate:**

Biodegradability : Result: Not readily biodegradable.

**Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: No data available

**Components:**

**Benzene, 1,2-dimethyl-:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 3.12

**Naphtha (petroleum), light alkylate:**

Bioaccumulation : Bioconcentration factor (BCF): 105

Partition coefficient: n-octanol/water : log Pow: 3.52

**Methanol:**

Bioaccumulation : Bioconcentration factor (BCF): 1.0

**3-butoxypropan-2-ol:**

Bioaccumulation : Bioconcentration factor (BCF): < 100

Partition coefficient: n-octanol/water : log Pow: 1.2





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**dibutyltin dilaurate:**

Bioaccumulation : Bioconcentration factor (BCF): 31

Partition coefficient: n-octanol/water : Pow: ca. 3

**Mobility in soil**

**Product:**

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: 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 : Toxic to aquatic life with long lasting effects.

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not dispose of with domestic refuse.  
Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of waste product or used containers according to local regulations.

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**SECTION 14. TRANSPORT INFORMATION**

**International Regulations**

**UNRTDG**

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(o-xylene, hexamethyldisiloxane)  
Class : 3  
Packing group : II  
Labels : 3

**IATA-DGR**

UN/ID No. : UN 1993  
Proper shipping name : Flammable liquid, n.o.s.  
(o-xylene, hexamethyldisiloxane)  
Class : 3  
Packing group : II  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

**IMDG-Code**

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(o-xylene, hexamethyldisiloxane)  
Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : yes

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

Not applicable for product as supplied.

**National Regulations**

**49 CFR**

UN/ID/NA number : UN 1993  
Proper shipping name : Flammable liquids, n.o.s.  
(o-xylene, hexamethyldisiloxane)  
Class : 3  
Packing group : II  
Labels : FLAMMABLE LIQUID  
ERG Code : 128  
Marine pollutant : yes

**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 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Acute toxicity (any route of exposure)  
Respiratory or skin sensitisation  
Reproductive toxicity  
Specific target organ toxicity (single or repeated exposure)  
Aspiration hazard  
Skin corrosion or irritation  
Serious eye damage or eye irritation

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

Benzene, 1,2-dimethyl-	95-47-6	>= 20 - < 30 %
Methanol	67-56-1	>= 5 - < 10 %

**Clean Air Act**

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).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

Benzene, 1,2-dimethyl-	95-47-6	>= 20 - < 30 %
Methanol	67-56-1	>= 5 - < 10 %

**California Prop. 65**

WARNING: This product can expose you to chemicals including Cumene, ETHYLBENZENE, Benzene, Styrene, which is/are known to the State of California to cause cancer, and Methanol, Toluene, Benzene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

TSCA : All substances listed as active on the TSCA inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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**SECTION 16. OTHER INFORMATION****Further information****Full text of other abbreviations**

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
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
OSHA Z-1 / 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; TECl - Thailand

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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

Revision Date : 11/25/2024

|| Relevant changes compared to the last edition are highlighted at the left margin. This version replaces all previous editions.

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