



# SAFETY DATA SHEET

<b>SECTION 1.0</b>	<b>PRODUCT AND COMPANY IDENTIFICATION</b>
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**Product Identifier**

UNIAROM® TX 100 IF

**Other means of identification**

Solvent naphtha, light aromatic Light aromatic solvent naphtha Solvent naphtha (petroleum) light aromatic Light aromatic solvent naphtha (petroleum) (C<sub>8-10</sub>), Petroleum naphtha, light aromatic, A100, C<sub>9</sub> Aromatic

A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominately of aromatic hydrocarbons having carbon numbers predominately in the range of C<sub>8</sub> through C<sub>10</sub> and boiling in the range of approximately 135°C to 210°C.

**CAS Number**

64742-95-6

**Manufacturer/Importer/Supplier/Distributor Information**

UniSource-Energy, LLC  
 40 Shuman Blvd, Suite 290  
 Naperville, IL 60563

**E-mail**

orders@unisource-energy.com

**Telephone number**

Phone: 630-470-6030 Fax: 630-470-6031

**Emergency telephone number**

UniSource-Energy, LLC  
 1-800-444-5510

CHEMTREC  
 1-800-424-9300

<b>SECTION 2.0</b>	<b>HAZARD(S) IDENTIFICATION</b>
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**OSHA/HCS status**

Flammable liquids Category 3  
 Skin corrosion/irritation Category 2  
 Serious eye damage/eye irritation Category 2A  
 Carcinogenicity Category 2  
 Specific target organ toxicity (single exposure) Category 3 – Narcotic effects  
 Specific target organ toxicity (single exposure) Category 3 – Respiratory irritation  
 Specific target organ toxicity (single exposure) Category 1



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Specific target organ toxicity (single exposure) Category 2

Specific target organ toxicity (single exposure) Category 1

Aspiration hazard Category 1

## GHS label elements



## Signal word

Danger

## Hazard Statement

Flammable liquid and vapor

May be fatal if swallowed and enters airways

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation

May cause drowsiness or dizziness

Suspected of causing cancer

Causes damage to organs (lungs)

May cause damage to organs (central nervous system)

Causes damage to organs (nervous system, respiratory system) through prolonged or repeated exposure

## Precautionary Statement

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, open flames, sparks. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical, lighting, ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe vapors, spray, mist. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear impermeable protective gloves, eye protection, flame retardant protective clothing. Specific treatment (see Section 4 - Description of necessary first aid measures of SDS or information on this label). If swallowed: Immediately call doctor, poison center. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. In case of fire: Use water spray or fog, foam, carbon dioxide (CO<sub>2</sub>), dry chemical to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.



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## Hazard(s) not otherwise classified (HNOC)

Product can accumulate electrostatic charges that may cause fire by electrical discharges

## Unknown acute toxicity (GHS-US)

Not applicable

## Additional Information

No additional information available.

## SECTION 3.0

## COMPOSITION/INFORMATION ON INGREDIENTS

### CAS number/other identifiers

Ingredient Name	CAS number	%
1,2,4-Trimethylbenzene	95-63-6	10 – 35
Other Aromatic hydrocarbons (C9 –C10)	-	≤ 25
m-Ethyl toluene	620-14-4	10 -20
1,3,5-Trimethylbenzene	108-67-8	5 – 10
p-Ethyl toluene	622-96-8	3 – 9
Benzene, 1-ethyl-2-methyl-	611-14-3	3 – 9
Xylene	1330-20-7	2 – 8
n-Propylbenzene	103-65-1	3 – 7
1,2,3-Trimethylbenzene	526-73-8	3 – 7
Cumene	98-82-8	1 – 2
Ethylbenzene	100-41-4	<= 0.5

## SECTION 4.0

## FIRST AID MEASURES

### Description of necessary first aid measures

#### First –aid General Measures

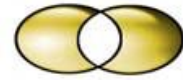
Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.



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## Skin contact

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

## Ingestion

Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

## Most important symptoms, acute and delayed

### Symptoms/injuries

Causes damage to organs

### Inhalation

Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.

### Skin contact

Causes skin irritation

### Eye contact

Causes serious eye irritation.

### Ingestion

May be fatal if swallowed and enters airways.

## Chronic symptoms

Suspected of causing cancer.

## Indication of immediate medical attention and special treatment needed

No additional information available.

<b>SECTION 5.0</b>	<b>FIRE-FIGHTING MEASURES</b>
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### Suitable extinguishing media

Foam. Dry powder. Carbon dioxide. Water spray. Sand.

### Unsuitable extinguishing media

Do not use a heavy water stream.

### Specific hazards arising from the chemical

Flammable liquid and vapor.

May form flammable/explosive vapor air mixture.

### Advice for firefighters

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.



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**SECTION 6.0****ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Emergency procedures**

Non-emergency personnel: Evacuate unnecessary personnel.

Emergency responders: Ventilate area.

**Methods and materials for containment and cleaning up**

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Collect spillage. Store away from other materials.

**Additional advice**

See Section 8. Exposure controls/personal protection.

**SECTION 7.0****HANDLING AND STORAGE****Personal precautions, protective equipment and emergency procedures****Additional hazards when processed**

Handle empty containers with care because residual vapors are flammable.

**Precautions for safe handling**

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No bare lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing fume, mist, spray, vapors. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

**Hygiene measures**

Wash hands, forearms and face thoroughly after handling.

**Conditions for safe storage, including any incompatibilities****Technical measures**

Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof lighting, ventilating, electrical equipment.

**Storage conditions**

Keep only in the original container in a cool, well ventilated place away from: sparks, heat sources, flames, ignition sources. Keep container tightly closed.

**Incompatible products**

Strong bases. Strong acids



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## Incompatible materials

Sources of ignition. Direct sunlight. Heat sources.

<b>SECTION 8.0</b>	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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## Occupational Exposure Limits

Component	Exposure Limits		
<b>1,2,4-trimethylbenzene (95-63-6)</b>	ACGIH	TWA	123 mg/m <sup>3</sup> Trimethylbenzene, all isomers
	ACGIH	TWA	25 ppm Trimethylbenzene, all isomers
<b>1,3,5-Trimethylbenzene (108-67-8)</b>	ACGIH	TWA	123 mg/m <sup>3</sup> Trimethylbenzene, all isomers
	ACGIH	TWA	23 ppm Trimethylbenzene, all isomers
<b>1,2,3-Trimethylbenzene (526-73-8)</b>	ACGIH	TWA	123 mg/m <sup>3</sup> Trimethylbenzene, all isomers
	ACGIH	TWA	25 ppm Trimethylbenzene, all isomers
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	ACGIH	TWA	100 ppm
	ACGIH	STEL	150 ppm
	OSHA PEL	TWA	435 mg/m <sup>3</sup>
	OSHA PEL	TWA	100 ppm
<b>Ethylbenzene (100-41-4)</b>	ACGIH	TWA	20 ppm
	OSHA PEL	TWA	435 mg/m <sup>3</sup>
	OSHA PEL	TWA	100 ppm
<b>Cumene (98-82-8)</b>	ACGIH	TWA	50 ppm
	OSHA PEL	TWA	245 mg/m <sup>3</sup>
	OSHA PEL	TWA	50 ppm

## Exposure controls

### Engineering measures

Ensure adequate ventilation.

### Personal protective equipment

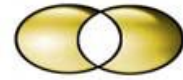
Avoid all unnecessary exposure.

### Respiratory protection

An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits.

### Hand protection

Impermeable protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.



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## Eye protection

Chemical resistant goggles or safety glasses.

## Skin and body protection

Wear fire/flame resistant/retardant clothing.

## Other information

Do not eat, drink or smoke during use.

<b>SECTION 9.0</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Physical state</b>	Liquid
<b>Color</b>	Colorless, clear
<b>Odor</b>	Sweet, aromatic
<b>Odor threshold</b>	No data available
<b>pH</b>	Not applicable
<b>Relative evaporation rate (butyl acetate = 1)</b>	No data available
<b>Melting point/ Freezing point</b>	< -60°C
<b>Boiling range</b>	148 – 177°C
<b>Flash point</b>	41°C (Closed Cup)
<b>Flammability (solid, gas)</b>	No data available
<b>Vapor pressure</b>	< 10 mm Hg @ 20°C
<b>Relative vapor density@ 20 °C</b>	3.5 (Air = 1)
<b>Relative density</b>	0.86 – 0.88 (Water = 1)
<b>Solubility</b>	Water: negligible
<b>Log K<sub>ow</sub></b>	No data available
<b>Auto-ignition temperature</b>	280 – 470°C
<b>Decomposition temperature</b>	No data available
<b>Viscosity, kinematic</b>	<2 cSt @ 40 °C
<b>Viscosity, dynamic</b>	No data available
<b>Explosive limits</b>	1.4 – 7.6 volume %
<b>VOC content</b>	100 %

<b>SECTION 10.0</b>	<b>STABILITY AND REACTIVITY</b>
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## Reactivity

Flammable liquid and vapor.



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## Chemical stability

Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

## Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous polymerization will not occur.

## Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

## Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents.

## Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: carbon monoxide, carbon dioxide, toxic fumes.

## SECTION 11.0

## TOXICOLOGICAL INFORMATION

### Likely routes of exposure

Eye contact, Skin contact, Ingestion, Inhalation

### Acute toxicity

Not classified

Product/Ingredient	Test	Results
<b>UNIAROM® TX 100 IF (64742-95-6)</b>	LD <sub>50</sub> oral rat	>5000 mg/kg
	LD <sub>50</sub> dermal rat	>2000 mg/kg*
	LC <sub>50</sub> inhalation rat	>5.2 mg/l/4 hr.
	LC <sub>50</sub> inhalation rat	3400 ppm/4 hr.
<b>1,2,4-trimethylbenzene (95-63-6)</b>	LD <sub>50</sub> oral rat	5000 mg/kg
	LD <sub>50</sub> dermal rat	>3160 mg/kg
	LC <sub>50</sub> inhalation rat	18 mg/l/4hr.
<b>m-Ethyltoluene (620-14-4)</b>	LD <sub>50</sub> oral rat	4300 mg/kg**
	LD <sub>50</sub> dermal rat	≥4200 mg/kg**
	LC <sub>50</sub> inhalation rat	21.7 mg/l/4hr.**
<b>1,3,5-Trimethylbenzene (108-67-8)</b>	LD <sub>50</sub> oral rat	5000 mg/kg***
	LD <sub>50</sub> dermal rat	>3160 mg/kg***
	LC <sub>50</sub> inhalation rat	24 mg/l/4hr. (4 hr.)
<b>p-Ethyltoluene (622-96-8)</b>	LD <sub>50</sub> oral rat	4300 mg/kg**
	LD <sub>50</sub> dermal rat	≥4200 mg/kg**
	LC <sub>50</sub> inhalation rat	21.7 mg/4hr.**





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<b>Benzene, 1-ethyl-2-methyl- (611-14-3)</b>	LD <sub>50</sub> oral rat	5000 mg/kg
	LD <sub>50</sub> dermal rat	10600 mg/kg****
	LC <sub>50</sub> inhalation rat	39 mg/l/4 hr.****
<b>1,2,3-Trimethylbenzene (526-73-8)</b>	LD <sub>50</sub> oral rat	5000 mg/kg***
	LD <sub>50</sub> dermal rat	>3160 mg/kg***
	LC <sub>50</sub> inhalation rat	10.2 mg/l/4 hr.*****
<b>n-Propylbenzene (103-65-1)</b>	LD <sub>50</sub> oral rat	6040 (6040-7500) mg/kg
	LD <sub>50</sub> dermal rat	10600 mg/kg*****
	LC <sub>50</sub> inhalation rat	422 g/m <sup>3</sup> (2 hr.)
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	LD <sub>50</sub> oral rat	4300 mg/kg
	LD <sub>50</sub> dermal rat	≥4200 mg/kg
	LC <sub>50</sub> inhalation rat	21.7 mg/l/4hr.
<b>Ethylbenzene (100-41-4)</b>	LD <sub>50</sub> oral rat	3500 mg/kg
	LD <sub>50</sub> dermal rat	15354 mg/kg
	LC <sub>50</sub> inhalation rat	17.2 mg/l/4hr.
<b>Cumene (98-82-8)</b>	LD <sub>50</sub> oral rat	1400 mg/kg
	LD <sub>50</sub> dermal rat	10600 mg/kg
	LC <sub>50</sub> inhalation rat	39 mg/4hr.

\*Bridging principle "Substantially similar mixtures"

\*\*Based on xylenes

\*\*\* Based 1, 2, 4-trimethylbenzene

\*\*\*\*Based on Cumene

\*\*\*\*\*Based on a mixture of trimethylbenzene

\*\*\*\*\*Based on isopropyl benzene

## Skin corrosion/irritation

Causes skin irritation

## Serious eye damage/irritation

Causes serious eye irritation

## Respiratory or skin sensitization

Not classified

## Germ cell mutagenicity

Not classified

## Carcinogenicity

Suspected of causing cancer

Ingredient		
<b>1,2,4-trimethylbenzene (95-63-6)</b>	National Toxicology Program (NTP)	Not listed



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<b>Xylenes (o-, m-, p- isomers)</b> <b>(1330-20-7)</b>	IARC group	3 – Not classified
<b>Ethylbenzene</b> <b>(100-41-4)</b>	IARC group	2B – Possibly carcinogenic to humans
	National Toxicology Program (NTP)	Not listed
<b>Cumene</b> <b>(98-82-8)</b>	IARC group	2B – Possibly carcinogenic to humans
	National Toxicology Program (NTP)	Reasonably anticipated to be Human Carcinogen

### Reproductive toxicity

Not classified

### Aspiration hazard

May be fatal if swallowed and enters airways.

### Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness. May cause respiratory irritation. Causes damage to organs (lungs). May cause damage to organs. (central nervous system).

### Specific target organ toxicity (repeated exposure)

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

### Potential adverse human health effects and symptoms

Based on available data, the classification criteria are not met. Harmful if inhaled.

## SECTION 12.0

## ECOLOGICAL INFORMATION

### Ecotoxicity

Product	Test	Species	Results	Exposure
<b>UNIAROM® TX 100 IF</b> <b>(64742-95-6)</b>	LC <sub>50</sub> Fish 1	Oncorhynchus mykiss	9.22 mg/l	96 hr.
	EC <sub>50</sub> Daphnia	Daphnia magna	6.14 mg/l	48 hr.

### Persistence and degradability

Not established

### Bioaccumulative potential

Not established

### Mobility in soil

No additional information available



# SAFETY DATA SHEET

## Other adverse effects

Avoid release to the environment

## SECTION 13.0

## DISPOSAL CONSIDERATIONS

### Waste disposal recommendations

Dispose in a safe manner in accordance with local/national regulations. Dispose of contents and container in accordance with all local, regional, national and international regulations.

### Additional information

Handle empty containers with care because residual vapors are flammable.


### Ecology – waste materials

Avoid release to the environment. Hazardous waste due to toxicity

## SECTION 14.0

## TRANSPORT INFORMATION

### US DOT for Bulk Shipments (Non-Bulk Shipments May Differ)

Transport document description	UN 1268, Petroleum distillates, n.o.s. 3, PGIII
UN or NA number	UN 1268
Proper Shipping Name	Petroleum distillates, n.o.s.
Primary Hazard Class	3 – Flammable
Packing Group	PGIII
Hazard labels	

Emergency Response Guide (ERG) No. 128

In accordance with the definition in 49 CFR § 171.8, a hazardous substance does not include petroleum, including crude oil or any fraction thereof which is not other specifically listed or designated as such in Appendix A to 49 CFR § 172.101. Therefore, this product does not require a RQ designation.

### IATA

Transport document description	UN 1268, PETROLEUM DISTILLATES, N.O.S., PGIII
UN or NA number	UN 1268
Proper Shipping Name	PETROLEUM DISTILLATES, N.O.S.
Primary Hazard Class	3 – Flammable
Packing Code	PGIII



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Hazard labels



## IMDG – Transport by Sea

Transport document description	UN 1268, Petroleum distillates, n.o.s. 3, PGIII
UN or NA number	UN 1268
Proper Shipping Name	PETROLEUM DISTILLATES, N.O.S.
Primary Hazard Class	3 – Flammable
Packing Code	PGIII
Hazard labels	



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

Product name	Alkyl (C3 - C4) benzenes (UNIAROM® TX 100 IF)
Pollution category	Y
Ship type	2
Cargo name listed in 46 CFR 30.25, Table 30.25-1	Alkyl (C3 - C4)
Cargo name listed in 46 CFR 153, Table 1	Alkyl (C3 - C4)

## SECTION 15.0

## REGULATORY INFORMATION

### US Federal regulations

#### TSCA

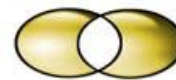
This product is a substance under TSCA (CAS No. 64742-94-5), Solvent naphtha (petroleum), light aromatic.

#### SARA 313

This product contains chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372

#### SARA 313 Components

Component	CAS Number	Concentration
1,2,4-trimethylbenzene	95-63-6	10 – 35%
Xylenes (o-, m-, p- isomers)	1330-20-7	2 – 8%
Ethylbenzene	100-41-4	≤0.5%
Cumene	98-82-8	1 – 2%



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This information must be included in all Safety Data Sheets that are copied and distributed for this product. For additional information, see 40 CFR §372.45 Notification About Toxic Chemicals.

## CERCLA/SARA – Section 311/312 Hazard Classes

Fire hazard  
Acute health hazard  
Chronic health hazard

## US State Regulations

### California Proposition 65

This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity, not limited to any that may be listed below.

Ingredient	Prop 65 List	Status
<b>Ethylbenzene (100-41-4)</b>	Carcinogens	Yes
	Developmental Toxicity	No
	Reproductive Toxicity – Female	No
	Reproductive Toxicity – Male	No
	No Significance Risk Level	54 µg/day inhalation)
<b>Cumene (98-82-8)</b>	Carcinogens	Yes
	Developmental Toxicity	No
	Reproductive Toxicity – Female	No
	Reproductive Toxicity – Male	No

## International regulations

### Canada

#### WHMIS Classification

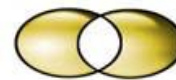
Class B Division 3 – Combustible Liquid  
Class D Division 2 Subdivision B - Toxic material causing other toxic effects

### National Chemical Inventories

#### Solvent naphtha (petroleum) light aromatic (64742-94-5)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the China Inventory of Existing Chemical Substances (IECSC)  
Listed on the EEC (European Economic Community) inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)





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water/shower. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. In case of fire: Use water spray or fog, foam, carbon dioxide (CO<sub>2</sub>), dry chemical to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

## Supplemental Information

Product can accumulate electrostatic charges that may cause fire by electrical discharges

## Abbreviations

ACGIH = American Conference of Governmental Industrial Hygienists; ADR = European Road Transport; AICS = Australia Inventory of Chemical Substances; ASTM = American Society of Testing and Materials; ATE = Acute Toxicity Estimation; AU = Australia; Autoignition Temperature = The minimum temperature required to initiate combustion in air with no other source of ignition; BCF = Bioconcentration Factor; BEI = - Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV; BEL = Biological exposure limits; BOD = Biochemical Oxygen Demand; BTEX = Benzene, Toluene, Ethylbenzene, Xylenes; bw = body weight; bw/day = body weight/day; C = Celsius, CA = Canada, CAS = Chemical Abstracts Service; CEFIC = European Chemical Industry Council; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; CLP = Classification Packaging and Labelling Regulation (Regulation (EU) No. 1272/2008); COC = Cleveland Open Cup; CN = China; CPR = Controlled Products Regulations; CWA = Clean Water Act; DEA = Drug Enforcement Administration; DFG = Deutsche Forschungsgemeinschaft; DIN = Deutsches Institut für Normung; DMEL = Derived Minimal Effect Level; DNEL = Derived No Effect Level; DOT = Department of Transportation; DSL = Domestic Substances List (Canada); dw = dry weight; EC = European Commission; EC50 = Effective Concentration fifty; ECC = European Economic Community; ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals; ECHA = European Chemicals Agency; EINECS - European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EL50 = Effective Loading fifty; ENCS = Japan Existing and New Chemical Substances; EPA = Environmental Protection Agency; EU = European Union; EUH statement = CLP –specific Hazard statement; EWC = European Waste Code; F = Fahrenheit; Flash Point = Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air; fw = fresh water; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; GLP = Good Laboratory Practice; HAPs = Hazardous Air Pollutants; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IBC = Intermediate Bulk Container; IC<sub>50</sub> = Inhibitory Concentration fifty; ICAO = International Civil Aviation Organization; IDL = Ingredient Disclosure List; IDLH = Immediately Dangerous to Life and Health; IL<sub>50</sub> = Inhibitory Level fifty; IMDG = International Maritime Dangerous Goods; INSH = National Institute for Health and Safety at Work; INV = Chinese Chemicals Inventory; IOPC = International Oil Pollution Compensation; IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables; JP = Japan; Kow = Octanol/water partition; KECI = Korea Existing Chemicals Inventory; LC<sub>50</sub> = Lethal Concentration (gases) which kills 50% of the exposed animals, LD<sub>50</sub> = Lethal Dose (solids & liquids) which kills 50% of the exposed animals; LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading; LL<sub>50</sub> = Lethal Loading fifty; LEL = The lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.; LogPow = logarithm of the octanol/water partition coefficient; LOLI = List of Lists™ - ChemADVISOR's Regulatory Database; LRT = Lower Respiratory Tract, MARPOL 73/78 = International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution; MAK = Maximum Concentration Value in the Workplace; MEL = Maximum Exposure Limits; mg/m<sup>3</sup> = Concentration expressed in weight of substance per volume of air, mg/kg = Quantity of material, by weight, administered to a test subject, based on their body weight in kg, mw = marine water; NDSL = Non-Domestic Substances List (Canada); NE = Not Established; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level; NTP = National Toxicology Program; NZ = New Zealand; OECD = Organization



# SAFETY DATA SHEET

for Economic Co-operation and Development; OE-HPV = Occupational Exposure - High Production Volume; or = occasional release; OSHA = U.S. Occupational Safety and Health Administration; PAH = Polycyclic Aromatic Hydrocarbon; PBT = Persistent, Bioaccumulative and Toxic; PEL = Permissible Exposure Limit (OSHA); PH= Philippines; PICCS = Philippines Inventory of Chemicals and Chemical Substances; ppm = Concentration expressed in parts of material per million parts of air or water, PMCC = Pensky Martin Closed Cup; PNEC = Predicted No Effect Concentration; RCRA = Resource Conservation and Recovery; REACH = Registration Evaluation And Authorization Of Chemicals; RID = European Rail Transport; RRN = REACH Registration Number; RQ = Reportable Quantity; RTECS = Registry of Toxic Effects of Chemical Substances®; RTK = Right To Know; SARA = Superfund Amendments and Reauthorization Act; S\* = Skin notation; SKIN\_DES = Skin Designation; STEL = Short Term Exposure Limit (15 minutes); SCBA = Self-Contained Breathing Apparatus; SDWA = Safe Drinking Water Act; STOT = Specific Target Organ Toxicity, TDLo, = the lowest dose to cause a symptom, TSCA = Toxic Substance Control Act; TCLo = the lowest concentration to cause a symptom; TDo, LDLo, and LDo, or TC, TCo, LCLo, and LCo, the lowest dose (or concentration) to cause lethal or toxic effects, TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value (ACGIH); TRA = Targeted Risk Assessment; TSCA = Toxic Substances Control Act ; TWA = Time Weighted Average (8 hours); UEL = The highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.; UN = United Nations; URT + Upper Respiratory Track, US = United States; UVCB = Unknown, of Variable Composition, or of Biological Origin; vPvB = very Persistent and very Bioaccumulative; WHMIS = Worker Hazardous Materials Information System (Canada)

## Disclaimer

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