

SAFETY DATA SHEET

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Revision Date: 08/07/2013

Print Date: 11/25/2014

MSDS Number: 100000002882

Version: 2.0

DI-XYLENE XYLENE

20522

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

MANUFACTURER'S NAME:

DISTINCTIVE IMAGE

ADDRESS:

50 COMMERCE PARKWAY

HODGENVILLE, KY 42748

EMERGENCY PHONE : (800) 424 - 9300

INFORMATION PHONE : (800) 223 - 1918

FAX NUMBER : (800) 500 - 9812

Product Use Description Reserved for industrial and professional use

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, colorless

WARNING! FLAMMABLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

Skin contact

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation

Breathing of vapor or mist is possible. It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, lung (for example, asthma-like conditions), Liver, Kidney, Central nervous system, male reproductive system

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: redness of the skin, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), discomfort in the chest, central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, effects on memory, respiratory depression (slowing of the breathing rate), blurred vision, shortness of breath, Lack of coordination, confusion, irregular heartbeat, narcosis (dazed or sluggish feeling), coma

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Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: testis damage, kidney damage, liver damage, effects on hearing, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: central nervous system effects

Carcinogenicity

Ethylbenzene has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain. The International Agency for Research on Cancer (IARC) has classified ethylbenzene as a possible human carcinogen.

Reproductive hazard

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / trade secret no.	Concentration
Mixed Xylenes	1330-20-7	60 - 100%
Ethylbenzene	100-41-4	10 - 35%

4. FIRST AID MEASURES**Eyes**

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.

Treatment: No information available.

5. FIREFIGHTING MEASURES**Suitable extinguishing media**

Dry chemical, Carbon dioxide (CO₂), Water spray

Hazardous combustion products

May form: acrid smoke and fumes, carbon dioxide and carbon monoxide, Hydrocarbons, toxic fumes

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Precautions for fire-fighting

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification

Flammable Liquid Class IB

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods for 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).

Other information

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapors/mists with a water spray jet.

7. HANDLING AND STORAGE**Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

Storage

Store in a cool, dry, ventilated area, away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines****Mixed Xylenes****1330-20-7**

ACGIH	8-hour, time-weighted average	100 ppm
ACGIH	Short-term exposure limit	150 ppm
OSHA	8-hour time weighted average	100 ppm

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OSHA	8-hour time weighted average	435 mg/m ³
Ethylbenzene	100-41-4	
ACGIH	8-hour, time-weighted average	100 ppm
ACGIH	Short-term exposure limit	125 ppm
NIOSH	Time-weighted average	100 ppm concentration for up to a 10-hour work day during a 40-hour work week
NIOSH	Time-weighted average	435 mg/m ³ concentration for up to a 10-hour work day during a 40-hour work week
NIOSH	STEL - 15-minute TWA	125 ppm exposure that should not be exceeded at any time during a work day
NIOSH	STEL - 15-minute TWA	545 mg/m ³ exposure that should not be exceeded at any time during a work day
OSHA	8-hour time weighted average	100 ppm
OSHA	8-hour time weighted average	435 mg/m ³
OSHA	8-hour time weighted average	100 ppm
OSHA	8-hour time weighted average	435 mg/m ³
OSHA	Short-term exposure limit	125 ppm
OSHA	Short-term exposure limit	545 mg/m ³

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use. Wear resistant gloves (consult your safety equipment supplier). Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	liquid
Color	colorless / clear

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Odor	aromatic
Boiling point/boiling range	281.93 °F / 138.85 °C
Melting point/range	Melting point/range -15.07 °F / -26.15 °C
pH	7
Flash point	70 - 81 °F / 21 - 27 °C
Evaporation rate	0.76 n-butyl acetate=1
Lower explosion limit/Upper explosion limit	1.0 %(V) / 7.1 %(V)
Vapor pressure	(Estimated)7.000 - 9.000 mmHg @ 68 °F / 20 °C
Relative vapor density	3.7
Density	0.86 g/cm ³ @ 68 °F / 20 °C
Water solubility	negligible
log Pow	3.16
Auto-ignition temperature	810 - 986 °F / 432 - 530 °C
Viscosity, kinematic	(<)0.9 mm ² /s @ 20 °C

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

Heat, flames and sparks., excessive heat

Incompatible products

Avoid contact with:, Strong oxidizing agents, Strong acids, Reducing agents Strong oxidizing agents

Hazardous decomposition products

May form:, carbon dioxide and carbon monoxide, Hydrocarbons, acrid smoke and fumes, toxic fumes

Hazardous reactions

Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION**Acute oral toxicity**

Acute oral toxicity – Product : no data available

Acute oral toxicity - Components

Mixed Xylenes : LD50: 4,300 mg/kg Target Organs: Kidney, Bladder

Ethylbenzene : LD50: 3,500 mg/kg Species: rat

Acute inhalation toxicity

Acute inhalation toxicity – Product : no data available

Acute inhalation toxicity - Components

Mixed Xylenes : LC50: 1,700 mg/l Exposure time: 4 h

Ethylbenzene : Remarks: no data available

Acute dermal toxicity

Acute dermal toxicity –Product : no data available

Acute dermal toxicity - Components

Ethylbenzene : LD50: 15,433 mg/kg Species: rabbit

Acute toxicity (other routes of administration)

Acute toxicity (other routes of administration) : no data available

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12. ECOLOGICAL INFORMATION

Biodegradability

Biodegradability - Product : no data available

Biodegradability - Components

Mixed Xylenes : 72 %

Ethylbenzene : Result: Readily biodegradable.

Bioaccumulation

Bioaccumulation – Product : no data available

Ecotoxicity effects**Toxicity to fish**

Toxicity to fish - Product : no data available

Toxicity to fish - Components

Mixed Xylenes : Remarks: no data available

Ethylbenzene : LC50: 88 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

Toxicity to daphnia and other aquatic invertebrates

- Product : no data available

Toxicity to daphnia and other aquatic invertebrates - Components

Mixed Xylenes : EC50: 75.49 mg/l Exposure time: 24 h

Species: Daphnia magna (Water flea)

Ethylbenzene : EC50: 2.9 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae

Toxicity to algae – Product : no data available

Toxicity to algae - Components

Mixed Xylenes : EC50: 4.36 mg/l Exposure time: 73 h

Species: Selenastrum capricornutum (green algae)

Analytical monitoring: yes

Test Type: Growth inhibition

Ethylbenzene : EC50: 3.6 mg/l Exposure time: 96 h

Species: Selenastrum capricornutum (green algae)

Analytical monitoring: yes

Method: Static

Toxicity to bacteria

Toxicity to bacteria – Product : no data available

Toxicity to bacteria - Components

Ethylbenzene : Remarks: no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations.

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14. TRANSPORT INFORMATION**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - RAIL

UN 1307	XYLENES	3		III	
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U.S. DOT - INLAND WATERWAYS

UN 1307	Xylenes	3		III	
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TRANSPORT CANADA - ROAD

UN 1307	XYLENES	3		III	
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TRANSPORT CANADA - RAIL

UN 1307	XYLENES	3		III	
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TRANSPORT CANADA - INLAND WATERWAYS

UN 1307	XYLENES	3		III	
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN 1307	XYLENES	3		III	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN 1307	Xylenes	3		III	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN 1307	Xylenes	3		III	
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN 1307	XILENOS	3		III	
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***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION**California Prop. 65**

WARNING! This product contains a chemical known to the State of California to cause cancer.

Ethylbenzene, Benzene

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Toluene, Benzene

SARA Hazard Classification**SARA 311/312 Classification**

Fire Hazard

Acute Health Hazard

Chronic Health Hazard

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New Jersey RTK Label Information

m-Xylene 108-38-3
 Ethylbenzene 100-41-4
 p-Xylene 106-42-3
 o-Xylene 95-47-6

Pennsylvania RTK Label Information

m-Xylene 108-38-3
 Ethylbenzene 100-41-4
 p-Xylene 106-42-3
 o-Xylene 95-47-6

Notification status

United States TSCA Inventory y (positive listing)
 Canadian Domestic Substances List (DSL) y (positive listing)

Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302) 100 lbs

Reportable quantity-Components

p-Xylene 106-42-3 100 lbs

	HMIS	NFPA
Health	2*	2
Flammability	3	3
Physical hazards	0	
Instability		0
Specific Hazard	--	--

16. OTHER INFORMATION

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.