

Section-1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance/mixture:**Commercial name:** Ortho-Xylene**Chemical name:** Ortho-Xylene C₈H₁₀**Synonyms:** O-Dimethyl benzene, O-methyl toluene, O-Xylol.

1.2 Use of the substance /mixture: Raw material for production of plasticizers; alkyd resins, glass-enforced polyesters, manufacture of phthalic anhydride, Manufacture of phthalic anhydride, vitamin and pharmaceutical syntheses, dyes, insecticides, motor fuels.

1.3 MANUFACTURER & SUPPLIER: Reliance Industries Limited Emergency Coordination Centre contact details:

Jamnagar Mfg. Division Village Meghpar / Padana, Taluka Lalpur, Dist. Jamnagar, Gujarat	SSM Office	+ 91 288 3512400 Mobile +91- 6354918737 +91- 9327918145 + 91 288 3522010
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SSM: Site Shift Manager

Section 2 – HAZARD IDENTIFICATION
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2.1 Classification of the substance/mixture: Hazard class and category code. GHS Category:

Health	Environmental	Physical
Acute Toxicity -Inhalation– Category 4 Acute Toxicity -Oral– Category 4 Skin Irritation Category: 2	Aquatic Toxicity – Category- 2	Flammable – Category 3

NA: Not available.

GHS Category table for reference: Study/hazard statement	Category 1	Category 2	Category 3	Category 4	Category 5
Acute Oral LD ₅₀	≤ 5 mg/kg Fatal if swallowed	> 5 ≤ 50 mg/kg Fatal if swallowed	> 50 ≤ 300 mg/kg Toxic if swallowed Harmful if May be harmful	> 300 ≤ 2000 mg/kg swallowed if swallowed	> 2000 ≤ 5000 mg/kg Fatal in contact with skin
Acute Dermal LD ₅₀	≤ 50 mg/kg May be skin with skin	> 50 ≤ 200 mg/kg Toxic in contact with skin	> 200 ≤ 1000 mg/kg Harmful in contact with skin	> 1000 ≤ 2000 mg/kg Fatal in contact with skin	> 2000 ≤ 5000 mg/kg Fatal in contact with skin
Acute Inhalation Dust LC ₅₀ Gases LC ₅₀ Vapours LC ₅₀	≤ 0.05 mg/L ≤ 100 ppm/V ≤ 0.5 mg/L Fatal if inhaled	> 0.05 ≤ 0.5 mg/L > 100 ≤ 500 ppm/V > 0.5 ≤ 2.0 mg/L Fatal if inhaled	> 0.5 ≤ 1.0 mg/L > 500 ≤ 2500 ppm/V > 2.0 ≤ 10 mg/L Toxic if inhaled	> 1.0 ≤ 5 mg/L > 2500 ≤ 20000 ppm/V > 10 ≤ 20 mg/L Harmful if inhaled	See footnote below this table
Flammable and initial degrees C and degrees C. degrees C. Extremely flammable and vapour	Flash point < 23 degrees C and > 35 degrees C.	Flash point < 23 degrees C ≤ 60 degrees C.	Flash point ≥ 23 degrees C ≤ 93 degrees C Flammable liquid	Flash point > 60 degrees C ≤ 35 degrees C Combustible liquid	Not Applicable initial boiling point degrees C and Highly

Note: Gases concentration are expressed in parts per million per volume (ppmV).
NOTE 1: Category 5 is for mixtures which are of relatively low acute toxicity but which under certain circumstances may pose a hazard to vulnerable populations. These mixtures are anticipated to have an oral or dermal LD₅₀ value in the range of 2000-

5000 mg/kg bodyweight or equivalent dose for other routes of exposure. In light of animal welfare considerations, testing in animals in Category 5 ranges is discouraged and should only be considered when there is a strong likelihood that results of such testing would have a direct relevance for protecting human health.

NOTE 2: These values are designed to be used in the calculation of the ATE for classification of a mixture based on its ingredients and do not represent test results. The values are conservatively set at the lower end of the range of Categories 1 and 2, and at a point approximately 1/10th from the lower end of the range for Categories 3 – 5.

GHS Category table for reference: Continued

Study/hazard statement	Category 1	Category 2	Category 3
Eye Irritation	Effects on the cornea, iris or conjunctiva that are not expected to reverse or that have not fully reversed within 21 days. Causes severe eye damage.	2A: Effects on the cornea, iris or conjunctiva that fully reverse within 21 days. Causes severe eye irritation. 2B : Effects on the cornea, iris or conjunctiva that fully reverse within 7 days. Causes eye irritation.	Not applicable
Skin Irritation	Destruction of skin tissue, with sub categorization based on exposure of up to 3 minutes (A), 1 hour (B), or 4 hours (C). Causes severe skin burns and eye damage.	Mean value of $\geq 2.3 > 4.0$ for erythema / eschar or edema in at least 2 of 3 tested animals from gradings at 24, 48, and 72 hours (or on 3 consecutive days after onset if reactions are delayed); inflammation that persists to end of the (normally 14-day) observation period. Causes skin irritation.	Mean value of $\geq 1.5 < 2.3$ for erythema / eschar or edema in at least 2 of 3 tested animals from gradings at 24, 48, and 72 hours (or on 3 consecutive days after onset if reactions are delayed). Causes mild skin irritation.
Environment: Acute Toxicity Category	96 hr LC ₅₀ (fish) ≤ 1 mg/L 48 hr EC ₅₀ (crustacea) ≤ 1 mg/L, 72/96 hr ErC ₅₀ (aquatic plants) ≤ 1 mg/L Very toxic to aquatic life	96 hr LC ₅₀ (fish) $> 1 \leq 10$ mg/L 48 hr EC ₅₀ (crustacea) $> 1 \leq 10$ mg/L 72/96 hr ErC ₅₀ (aquatic plants) $> 1 \leq 10$ mg/L Toxic to aquatic life	96 hr LC ₅₀ (fish) $> 10 \leq 100$ mg/L 48 hr EC ₅₀ (crustacea) $> 10 \leq 100$ mg/L 72/96 hr ErC ₅₀ (aquatic plants) $> 10 \leq 100$ mg/L Harmful to aquatic life
Flammable Aerosol	Extremely flammable aerosol	Flammable aerosol	Not Applicable
Flammable solids	Using the burning rate test, substances or mixtures other than metal powders: (a) wetted zone does not stop fire and (b) burning time < 45 seconds or burning rate > 2.2 mm/second Using the burning rate test, metal powders that have burning time ≤ 5 minutes Flammable solid	Using the burning rate test, substances or mixtures other than metal powders: (a) wetted zone does not stop fire for at least 4 minutes and (b) burning time < 45 seconds or burning rate > 2.2 mm/second Using the burning rate test, metal powders that have burning time $> 5 \leq 10$ minutes Flammable solid	Not Applicable
Flammable gases	Gases, which at 20 degrees C and a standard pressure of 101.3 kPA: (a) are ignitable when in a mixture of 13% or less by volume in air; or (b) have a flammable range with air of at least 12 percentage points regardless of the lower flammable limit. Extremely flammable gas	Gases, other than those of category 1, which, at 20 degrees C and a standard pressure of 101.3 kPA, have a flammable range while mixed in air. Flammable gas	Not Applicable

GHS Label: GHS02: Flammable Liquid, GHS07 Warning, and GHS08: Health Hazard



Signal word: Danger

Details of Statements:

Hazard Statements	
	H226: Flammable liquid and vapor. H304: May be fatal if swallowed and enters airways. H312 + H332: Harmful in contact with skin or if inhaled. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation.

ORTHOXYLENE

	H412: Harmful to aquatic life with long lasting effects.
Precautionary Statement Prevention	<p>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.</p> <p>P273: Avoid release to the environment.</p> <p>P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</p> <p>P302 + P352 + P312: IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P331: Do NOT induce vomiting</p>
Precautionary Statement Storage	<p>P233: Keep container tightly closed.</p> <p>P235: Keep cool.</p> <p>P403: Store in well-ventilated area.</p> <p>P405: Store locked up.</p>
Precautionary Statement Disposal	Follow local regulation

Hazard ratings:

NFPA HAZARD CODES	RATINGS SYSTEM
HEALTH: 2	0 = No Hazard
FLAMMABILITY: 3	1 = Slight Hazard
INSTABILITY: 0	2 = Moderate Hazard
	3 = Serious Hazard
	4 = Severe Hazard

Data Reference: <http://toxnet.nlm.nih.gov/cgi-bin/sis/search>.

2.2 Information pertaining to particular dangers for human:

Severely irritating if inhaled. Prolonged or repeated contact may cause moderate, irritation, redness, itching, inflammation, dermatitis and possible secondary infection.

2.3 Information pertaining to particular dangers for the environment:

NA

2.4 Other adverse effects:

Ignition possible when exposed to hot surfaces, sparks, naked flames and by electrostatic discharges too.

Those with history of lung diseases, or skin problems may be more susceptible to the effects of this substance. Those with history of lung diseases, or skin problems may be more susceptible to the effect of this material.

Route of entry:

Skin Contact	Skin Absorption	Eye Contact	Inhalation	Ingestion
Yes	Yes	Yes	Yes	Yes

DATA REFERENCE: <http://toxnet.nlm.nih.gov/cgibin/sis/search>. **Health hazards:**

Source	NTP listed?	IARC cancer review group?	OSHA Regulated?
Carcinogenicity	No	No	No

DATA REFERENCE: Toxic release inventory (TRI) basis of Occupational Safety and Health Administration (OSHA) carcinogen, National Toxicological program (NTP), International Agency for Research on Cancer (IARC), <http://toxnet.nlm.nih.gov/cgibin/sis/search>.

Section 3 – COMPOSITION & INFORMATION ON INGREDIENTS

Ingredients / Hazardous	CAS No.	EC No.	Percentage
Ortho-Xylene	95-47-6	202-422-2	99.50%

Section 4 – FIRST AID MEASURES

4.1 General advice

IMMEDIATE MEDICAL ATTENTION IS REQUIRED AFTER INHALATION OR AFTER SWALLOWING.

In case of health troubles or doubts, seek medical advice immediately and show this (Material) Safety Data Sheet.

4.2 Inhalation

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

4.3 Skin contact

In case of contact, immediately wash skin with copious amounts of water.

4.4 Eye contact

Contamination of the eyes should be treated by immediate and prolonged irrigation with copious amounts of water. Assure adequate flushing of the eyes by separating the eyelids with fingers.

4.5 Swallowing

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SYMPTOMS AND EFFECTS: nausea, vomiting, convulsions, irregular heartbeat.

Section 5 – FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Foam, Dry chemical powder, CO₂.

Cool containers with water spray.

5.2 Extinguishing media to be avoided

Water in the form of Jet.

5.3 Caution about specific danger in case of fire and fire-fighting procedures

Danger of violent reaction or explosion. Vapors may travel considerable far distances and cause subsequent ignition. Vapours are heavier than air, may cumulate along the ground and in enclosed spaces – danger of explosion. Do not empty into drains. When burning, it emits carbon monoxide, carbon dioxide and irritant fumes. Containers with the substance exposed to excessive heat may explode.

Keep unauthorized personnel out.

Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

Use water as a fine spray to control fire and cool adjacent area.

5.4 Special protective equipment for fire fighters

Wear full protective fire-resistant clothing and self-contained breathing apparatus.

Section 6 – ACCIDENTAL RELEASE MEASURES

6.1 Person-related safety precautions

Isolate hazard area. Evacuate all unauthorized personnel not participating in rescue operations from the area. Avoid entry into danger area. Remove all possible sources of ignition. Stop traffic and switch off the motors of the engines. Do not smoke and do not handle with naked flame. Use explosion-proof lamps and nonsparking tools. Avoid contact with the substance. Apply recommended full protective personal equipment. When escaping from the contaminated area, wear mask with cartridge against organic vapours. In case of general average, evacuate personnel from danger area.

6.2 Precautions for protection of the environment Prevent from further leaks of substance.

6.3 Recommended methods for cleaning and disposal

Soak up residues with compatible porous material and forward for disposal in closed containers. Dispose off under valid legal waste regulations.

Section 7 – HANDLING AND STORAGE

7.1 Information for safe handling

Observe all fire-fighting measures (no smoking, do not handle with naked flame and remove all possible sources of ignition). Take precautionary measures against static discharges. Wear recommended personal protective equipment and observe instructions to prevent possible contact of substance with skin and eyes and inhalation. Avoid leak to environment.

7.2 Information for storage

Storerooms should meet the requirements for the fire safety of constructions and electrical facilities and should be in conformity with valid regulations. Store in cool,

well-ventilated place with effective exhaust, away from heat and all sources of ignition. Store in tightly closed container. Do not store together with oxidizing agents. Take precautionary measures against static discharges. Avoid leak to environment.

7.3 Information for specific use

Not applicable.

Section 8 – EXPOSURE CONTROL & PERSONAL PROTECTION

8.1 Occupational Exposure Limits:

Material	Source	Type	ppm	mg/m3	Notation
Ortho-Xylene	ACGIH	TWA	100		
	ACGIH	STEL	150		
	NIOSH	IDLH	900		
	ACGIH	SKIN_DES TWA	NA		
	OSHA	TWA	100	435	
	OSHA	STEL	150	655	

NA: Data not available

DATA REFERENCE <http://toxnet.nlm.nih.gov/cgi-bin/sis/search>.

ACGIH TLV MANUAL


Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposure.

Recommended determination method in the work place atmosphere: gas chromatography, detector tube.

8.2 Occupational exposure controls

Collective protection measures: General and local ventilation, effective exhaust. Individual protection measures: Personal protective equipment (PPE) for the protection of eyes, hands and skin corresponding with the performed labour has to be kept at disposition for the employees. In cases, where the workplace exposure control limits cannot be observed with the help of technical equipment or where it is not possible to ensure that the respiratory system exposure does not represent a health hazard for the personnel, adequate respiratory protection have to be kept at disposition. In the case of continuous use of this equipment during constant work, safety breaks have to be scheduled, if the PPE-character requires this. All PPE have to be kept in disposable state and the damaged or contaminated equipment has to be replaced immediately.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT (PPE):

HANDS			EYES	BODY	RESPIRATORY	
						

Respiratory protection: If the exposure limit is exceeded and engineering controls are not feasible, wear a supplied air, full-face piece respirator, airline hood, or full face piece self-contained breathing apparatus. Protective mask with canister A (brown coloured, protecting against organic vapours), self-contained breathing apparatus.

Eye protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Hand protection: Wear gloves of impervious material.

Body protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Protective coverall antistatic design recommended, impervious when handling big amounts (nitrile rubber), sealed leather footwear (free from synthetic adhesives)

Hygiene Measures: Wash hands, forearms and face thoroughly after handling. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

8.3 Environmental exposure controls

Proceed in accordance with valid air and water legislative regulations.

Engineering measures: Use only with adequate ventilation. If user operations generate dust, fumes, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Section 9 –PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid, colorless or light yellow
Odour	Aromatic odor
Solubility in water	Negligible in cold water
Relative Density (H ₂ O=1)	0.88
Boiling Point °C	144.4 °C
Melting Point °C	-25°C
Relative Vapour Density (Air=1)	3.7
Flash point °C	30°C Closed cup
Auto ignition °C	463 °C
Vapour pressure (mmHg) @ 20 °C	6-7
Molecular weight	106.16
Explosive limits in air % by volume	LEL 0.9% UEL 6.7%
pH	NA
Viscosity mPa.s @20 °C	0.76
Pour point	NA
Evaporation rate	9.2 (ether=1)
Octanol/water partition coefficient log Kow	3.12
% volatile	NA

NA: NOT AVAILABLE

DATA REFERENCE: <http://toxnet.nlm.nih.gov/cgi-bin/sis/search>

Section 10 –CHEMICAL STABILITY AND REACTIVITY INFORMATION
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10.1 Conditions to avoid

Prolonged exposure of containers or tank cars to heat or fire may cause the material to expand with possible container rupture

10.2 Material to avoid

Very dangerous fire hazard when exposed to oxidizers

10.3 Hazardous decomposition products

Thermal decomposition generates carbon monoxide and carbon dioxide.

10.4 Incompatibilities: Strong oxidizers, Strong acids

Source: - *NIOSH Pocket Guide to Chemical Hazards*

Section 11 –TOXICOLOGICAL INFORMATION
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11.1 Acute effects

Product irritates eyes and skin. High vapour concentrations irritate respiratory system and eyes.

Acute toxicity data:

Parameter	Route	Species	Values	Exposure period
LD50	Oral	Rat	3,567 mg/Kg	Not applicable

Data Reference: RTECS #: ZE2450000 for Oxylene

11.2 Repeated dose toxicity

Chronic effects cause irritation

11.3 Sensitisation May cause skin irritation.

11.4 CMR effects (carcinogenicity, mutagenicity, toxicity for reproduction)

Not a carcinogen

Data Reference: <https://pubchem.ncbi.nlm.nih.gov>

11.5 Toxicokinetics, metabolism, distribution

Not applicable.

Section 12 –ECOLOGICAL INFORMATION

12.1 Ecotoxicity data:

Parameter	Route	Species	Values	Exposure period
LC50	Inhalation	Bass	11 ppm	96 hours
LC50	Inhalation	Crangon franciscorum (Shrimp)	1.3 ppm	96 hours

Data Reference: <http://toxnet.nlm.nih.gov/cgi-bin/sis/search/>

<https://pubchem.ncbi.nlm.nih.gov>

12.2 Mobility: Expected to have very high to moderate mobility in soil **Data**

Reference: <http://toxnet.nlm.nih.gov/cgi-bin/sis/search/>.

12.3 Persistence and degradability

Substance is biodegradable

12.4 Bio accumulative potential: BCF values ranging from 6.2-21 suggests the potential for bio concentration in aquatic organisms is low.

Data Reference: <https://pubchem.ncbi.nlm.nih.gov>

12.5 Results of PBT assessment Persistence and Degradation: NA

12.6 Other adverse effects

Environmental Fate: In air, xylenes degrade by reacting with photo chemically produced hydroxyl radicals. In soil it will volatilize and reach into groundwater. Vapour-phase xylene is degraded in the atmosphere by reaction with photo chemically-produced hydroxyl radicals; ambient levels of xylene are detected in the atmosphere due to large emissions of this compound.

Section 13– DISPOSAL CONSIDERATION

Local Legislation: Disposal should be in accordance with applicable regional, national, and local laws and regulations. This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.

13.1 Recommended disposal methods for the substance / mixture

Product reuse or disposal in accordance with valid waste legislative regulations.

13.2 Recommended disposal methods for contaminated packaging

Product is transported in tank-vehicles.

13.3 Waste management measures that control exposure of humans and environment

Proceed in accordance with valid health, air and water legislative regulations.

13.4 Waste regulation Follow local regulation.

Section 14– TRANSPORT INFORMATION

International Transport Regulation:

ADR/RID (Road/Rail), IMDG (Sea) and ICAO/IATA (Air)

14.1

Proper Shipping Name: Ortho-Xylene
Hazard Class: 3, Flammable Liquid
UN Number: 1307
PACKING GROUP: III
Packaging Instructions: P001/IBC03/LP01
Portable Tank: T2/TP1
Emergency Action Code: 3YE



14.2 Special transport precautionary measures

Not applicable.

Section 15– REGULATORY INFORMATION

(M)SDS format on a 16 Section based on guidance provided in:

Indian Regulation:

Manufacture, Storage and Import of Hazardous Chemicals Rule, 1989.
The Factories Act 1948

International Regulations:

European SDS Directive
ANSI MSDS Standard
ISO 11014-1 1994

WHMIS Requirements

United States

Hazard Communication Standard

Canada

Hazardous Products Act and Controlled Products Regulations

Europe

Dangerous Substance and Preparations Directives

Australia

National Model Regulations for the Control of Workplace Hazardous Substance

The Globally Harmonized System of Classification and Labeling of Chemicals endorsed by The UN Economic and Social Council

*RISK PHRASES: R10 Flammable, R20 Harmful by inhalation, R21 Harmful in contact with skin, R38 Irritating to skin.

*SAFETY PHRASES: S2 Keep out of the reach of children, S25 Avoid contact with eyes.

*These standard risk and safety phrases for use when interpreting (Material) Safety data Sheets are derived from the European Union Regulation, CHIP Regulations – Chemicals (Hazard Information and Packaging for Supply). They are required to be used in (Materials) Safety Data Sheets to identify potential hazards and offer safe handling advice.

Section 16 – OTHER INFORMATION

Training instructions

Personnel handling the product has to be acquainted demonstrably with its hazardous properties, with health and environmental protection principles related to the product and first aid principles. Tremcard details/Reference: Refer Section 14 Local bodies involved (Applicable only with in India): Local District Authority and Local Crisis Group

Sources of data used to compile the (Material) Safety Data Sheet

Data compilation reference: National Institute for Occupational Safety and Health guide to chemical hazards and International Chemical Safety Cards (WHO/IPCS/ILO) and <http://toxnet.nlm.nih.gov/cgi-bin/sis/search>, <http://webnet3.oecd.org/eChemPortal/Results2.aspx?SubstanceId=169630>, <http://ecb.jrc.ec.europa.eu/esis/index.php?PGM=ein>, <http://www.cdc.gov/niosh/npg/npgd0049.html>

(M)SDS Revision Status:

Date of Revision	Revised Sections	Supersedes
Sep. 01, 2009	Format revised	Feb. 01, 2008
Sep. 01, 2011	Section 4 (4.3)	Sep. 01, 2009
Aug. 01, 2013	Section 2 NFPA Hazard statement	Sep. 01, 2011
April 01, 2016	Section 2,11,12,14	Aug. 01, 2013
June 30, 2021	Section 1.3,2.1,4.5.5.1,5.2,5.3,10.4,11.1,16	April 01, 2016

This (M)SDS is issued by the Jamnagar (DTA) & Jamnagar (SEZ) manufacturing Divisions, Reliance Industries Limited

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ORTHOXYLENE



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