

SAFETY DATA SHEET



Issuing Date 13-Feb-2015

Revision date 28-Mar-2023

Revision Number 4

1. Identification

Product identifier

Product Name Xylene

Other means of identification

Catalogue Number C4330 C4330-5

UN/ID no UN1307

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use In vitro diagnostics

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Address

Cardinal Health
Waukegan, IL 60085 USA
Tel: (800) 964-5227

Manufacturer Address

Richard-Allan Scientific
4481 Campus Drive
Kalamazoo, MI 49008
1-800-522-7270

Emergency telephone number

Emergency Telephone Chemtrec US: (800) 424-9300

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|--|------------|
| Acute toxicity - Dermal | Category 4 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Skin corrosion/irritation | Category 2 |
| Reproductive toxicity | Category 2 |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Aspiration hazard | Category 1 |
| Flammable liquids | Category 3 |

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Danger

Hazard statements

Harmful in contact with skin
Harmful if inhaled
Causes skin irritation
Suspected of damaging fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Flammable liquid and vapor

**Appearance** clear colorless**Physical state** Liquid**Odor** Aromatic**Precautionary Statements - Prevention**

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ ventilating / lighting/ .? / equipment
Use only non-sparking tools
Take precautionary measures against static discharge

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
Specific treatment (see .? on this label)
Specific treatment (see .? on this label)
Call a POISON CENTER or doctor if you feel unwell
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing
IF SWALLOWED: Immediately call a POISON CENTER or doctor
Do NOT induce vomiting
In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

May be harmful if swallowed
Very toxic to aquatic life with long lasting effects
Very toxic to aquatic life

Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

| Chemical name | CAS No | Weight-% |
|------------------------------|-----------|----------|
| Xylenes (o-, m-, p- isomers) | 1330-20-7 | 85 |
| Ethylbenzene | 100-41-4 | 10 - 15 |
| Toluene | 108-88-3 | 0 - 0.5 |
| Benzene | 71-43-2 | 0 - 0.01 |

4. First-aid measures

Description of first aid measures

| | |
|---|---|
| General advice | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. |
| Inhalation | Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed pulmonary edema may occur. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. |
| Ingestion | Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical advice/attention. |
| Self-protection of the first aider | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. |

Most important symptoms and effects, both acute and delayed

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness.

Indication of any immediate medical attention and special treatment needed

Note to physicians Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.

5. Fire-fighting measures

| | |
|---|---|
| Suitable Extinguishing Media | Dry chemical. Carbon dioxide (CO ₂). Water spray. Alcohol resistant foam. |
| Unsuitable extinguishing media | CAUTION: Use of water spray when fighting fire may be inefficient. |
| Specific hazards arising from the chemical | Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Explosion data | |
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge | Yes. |
| Special protective equipment for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| | |
|-----------------------------|---|
| Personal precautions | Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid breathing vapors or mists. |
| Other information | Ventilate the area. Refer to protective measures listed in Sections 7 and 8. |

Methods and material for containment and cleaning up

| | |
|--------------------------------|---|
| Methods for containment | Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. |
| Methods for cleaning up | Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. |

7. Handling and storage

Precautions for safe handling

| | |
|--------------------------------|---|
| Advice on safe handling | Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. |
|--------------------------------|---|

Conditions for safe storage, including any incompatibilities

| | |
|---------------------------|---|
| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. |
|---------------------------|---|

Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|-------------------------------------|--|---|
| Xylenes (o-, m-, p- isomers) 1330-20-7 | STEL: 150 ppm TWA: 100 ppm | TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m ³ | - |
| Ethylbenzene 100-41-4 | TWA: 20 ppm | TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m ³ | IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³ |
| Toluene 108-88-3 | TWA: 20 ppm | TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m ³ Ceiling: 300 ppm | IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³ |
| Benzene 71-43-2 | STEL: 2.5 ppm TWA: 0.5 ppm S* | TWA: 10 ppm applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028 TWA: 1 ppm (vacated) TWA: 10 ppm unless specified in 1910.1028 (vacated) STEL: 50 ppm 10 min unless specified in 1910.1028 Ceiling: 25 ppm STEL: 5 ppm see 29 CFR 1910.1028 | IDLH: 500 ppm TWA: 0.1 ppm STEL: 1 ppm |

Appropriate engineering controls

Engineering controls Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|----------------|--------------------------|
| Physical state | Liquid |
| Appearance | clear colorless |
| Color | No information available |
| Odor | Aromatic |
| Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|--------------------------------|-------------------------|
| pH | No data available | None known |
| Melting point / freezing point | -47.2 °C / -52.96 °F | |
| Boiling point / boiling range | 136.7 °C / 278.06 °F | |
| Flash point | 26.11 °C / 79 °F | |
| Evaporation rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | 7.0 vol % | |
| Lower flammability or explosive limits | 1.1 vol % | |
| Vapor pressure | 9 mmHg @ 251 @ 9 mmHg @ 252 °C | |
| Vapor density | 3.66 (air = 1) | |
| Relative density | 0.87 | |
| Water solubility | Insoluble in water | |
| Solubility in other solvents | No data available | |
| Partition coefficient | No data available | None known |
| Autoignition temperature | 566 °C / 1050.8 °F | |
| Hyphen | No data available | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | |
| <u>Other information</u> | | |
| Explosive properties | No information available | |
| Oxidizing properties | No information available | |
| Softening point | No information available | |
| Molecular weight | No information available | |
| VOC Content (%) | 100 | |
| Liquid Density | No information available | |
| Bulk density | No information available | |

10. Stability and reactivity

| | |
|------------------------------------|---|
| Reactivity | No information available. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | None under normal processing. |
| Hazardous polymerization | Hazardous polymerization does not occur. |
| Conditions to avoid | Heat, flames and sparks. Excessive heat. |
| Incompatible materials | Strong acids. Strong bases. Strong oxidizing agents. |
| Hazardous decomposition products | Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrocarbons. Aldehydes. |

11. Toxicological information

Information on likely routes of exposure

Product Information

| | |
|---------------------|--|
| Inhalation | Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Harmful by inhalation. (based on components). |
| Eye contact | Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). |
| Skin contact | Repeated exposure may cause skin dryness or cracking. Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components). |
| Ingestion | Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-----------------|--|
| Symptoms | Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes. |
|-----------------|--|

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

| | |
|--------------------------------------|----------------|
| ATEmix (oral) | 3,500.00 mg/kg |
| ATEmix (dermal) | 1,278.00 mg/kg |
| ATEmix (inhalation-dust/mist) | 1.50 mg/l |

| | |
|-------------------------------|---|
| Unknown acute toxicity | 0 % of the mixture consists of ingredient(s) of unknown toxicity |
| | 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity |
| | 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity |
| | 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) |
| | 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) |
| | 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist) |

Product Information

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Xylenes (o-, m-, p- isomers) 1330-20-7 | = 3500 mg/kg (Rat) | > 1700 mg/kg (Rabbit) > 4350 mg/kg (Rabbit) | = 29.08 mg/L (Rat) 4 h = 5000 ppm (Rat) 4 h |
| Ethylbenzene 100-41-4 | = 3500 mg/kg (Rat) | = 15400 mg/kg (Rabbit) | = 17.4 mg/L (Rat) 4 h |
| Toluene 108-88-3 | = 2600 mg/kg (Rat) | = 12000 mg/kg (Rabbit) | = 12.5 mg/L (Rat) 4 h |
| Benzene 71-43-2 | = 1800 mg/kg (Rat) = 810 mg/kg (Rat) | > 8200 mg/kg (Rabbit) | = 44.66 mg/L (Rat) 4 h |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|--|-------|----------|-------|------|
| Xylenes (o-, m-, p-isomers) 1330-20-7 | - | Group 3 | - | - |
| Ethylbenzene 100-41-4 | - | Group 2B | - | X |
| Toluene 108-88-3 | - | Group 3 | - | - |
| Benzene 71-43-2 | - | Group 1 | Known | X |

Legend

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity Classification based on data available for ingredients.

STOT - single exposure No information available.

STOT - repeated exposure May cause damage to organs.

Target organ effects Eyes, Skin, Liver, Kidney, Respiratory system, Central nervous system.

Aspiration hazard May be fatal if swallowed and enters airways.

Other adverse effects Tumorigenic effects have been reported in experimental animals.

Interactive effects No information available.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

| Chemical name | Product Information | | | |
|--|----------------------|--|----------------------------|--|
| | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
| Xylenes (o-, m-, p-isomers) 1330-20-7 | - | LC50: >780mg/L (96h, Cyprinus carpio) LC50: 13.1 - 16.5mg/L (96h, Lepomis macrochirus) LC50: 23.53 - 29.97mg/L (96h, Pimephales promelas) LC50: 13.5 - 17.3mg/L (96h, Oncorhynchus mykiss) LC50: =19mg/L (96h, | - | LC50: =0.6mg/L (48h, Gammarus lacustris) EC50: =3.82mg/L (48h, water flea) |

| | | | | |
|--------------------------|---|--|---|--|
| | | Lepomis macrochirus) LC50: 7.711 - 9.591 mg/L (96h, Lepomis macrochirus) LC50: =13.4 mg/L (96h, Pimephales promelas) LC50: =780 mg/L (96h, Cyprinus carpio) LC50: 2.661 - 4.093 mg/L (96h, Oncorhynchus mykiss) LC50: 30.26 - 40.75 mg/L (96h, Poecilia reticulata) | | |
| Ethylbenzene 100-41-4 | EC50: =4.6 mg/L (72h, Pseudokirchneriella subcapitata) EC50: 2.6 - 11.3 mg/L (72h, Pseudokirchneriella subcapitata) EC50: 1.7 - 7.6 mg/L (96h, Pseudokirchneriella subcapitata) EC50: >438 mg/L (96h, Pseudokirchneriella subcapitata) | LC50: 9.1 - 15.6 mg/L (96h, Pimephales promelas) LC50: 7.55 - 11 mg/L (96h, Pimephales promelas) LC50: =9.6 mg/L (96h, Poecilia reticulata) LC50: =4.2 mg/L (96h, Oncorhynchus mykiss) LC50: =32 mg/L (96h, Lepomis macrochirus) LC50: 11.0 - 18.0 mg/L (96h, Oncorhynchus mykiss) | - | EC50: 1.8 - 2.4 mg/L (48h, Daphnia magna) |
| Toluene 108-88-3 | EC50: >433 mg/L (96h, Pseudokirchneriella subcapitata) EC50: =12.5 mg/L (72h, Pseudokirchneriella subcapitata) | LC50: =12.6 mg/L (96h, Pimephales promelas) LC50: 5.89 - 7.81 mg/L (96h, Oncorhynchus mykiss) LC50: =5.8 mg/L (96h, Oncorhynchus mykiss) LC50: 15.22 - 19.05 mg/L (96h, Pimephales promelas) LC50: 11.0 - 15.0 mg/L (96h, Lepomis macrochirus) LC50: 50.87 - 70.34 mg/L (96h, Poecilia reticulata) LC50: 14.1 - 17.16 mg/L (96h, Oncorhynchus mykiss) LC50: =28.2 mg/L (96h, Poecilia reticulata) LC50: =54 mg/L (96h, Oryzias latipes) | - | EC50: =11.5 mg/L (48h, Daphnia magna) EC50: 5.46 - 9.83 mg/L (48h, Daphnia magna) |
| Benzene 71-43-2 | EC50: =29 mg/L (72h, Pseudokirchneriella subcapitata) | LC50: 10.7 - 14.7 mg/L (96h, Pimephales promelas) LC50: =28.6 mg/L (96h, Poecilia reticulata) LC50: 22330 - 41160 µg/L (96h, Pimephales promelas) LC50: 70000 - 142000 µg/L (96h, Lepomis macrochirus) LC50: =22.49 mg/L (96h, Lepomis macrochirus) LC50: =5.3 mg/L (96h, Oncorhynchus mykiss) | - | EC50: =10 mg/L (48h, Daphnia magna) EC50: 8.76 - 15.6 mg/L (48h, Daphnia magna) |

Persistence and degradability

Bioaccumulation There is no data for this product.

Component Information

| Chemical name | Partition coefficient |
|---|-----------------------|
| Xylenes (o-, m-, p- isomers) 1330-20-7 | 3.15 |
| Ethylbenzene 100-41-4 | 3.2 |
| Toluene 108-88-3 | 2.7 |
| Benzene 71-43-2 | 2.1 |

Mobility Is not likely mobile in the environment due its low water solubility.

Other adverse effects

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

US EPA Waste Number D001, U019 U220 U239

| Chemical name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|------|--------------------------|---------------------------|------------------------|
| Xylenes (o-, m-, p- isomers) 1330-20-7 | - | - | - | U239 |
| Toluene 108-88-3 | - | - | - | U220 |
| Benzene 71-43-2 | - | - | 0.5 mg/L regulatory level | U019 |

| Chemical name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|---------------------|--------------------------------------|------------------------|---|------------------------|
| Toluene 108-88-3 | - | - | Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and | - |

| | | | | |
|--|--|--|-------------------------------------|--|
| | | | positions of chlorine substitution. | |
|--|--|--|-------------------------------------|--|

14. Transport information

DOT

| | |
|----------------------|---------|
| UN/ID no | UN1307 |
| Proper shipping name | XYLENES |
| Hazard class | 3 |
| Packing group | III |

TDG

| | |
|----------------------|---------|
| UN/ID no | UN1307 |
| Proper shipping name | XYLENES |
| Hazard class | 3 |
| Packing group | III |

IATA

| | |
|----------------------------|---------|
| UN number or ID number | UN1307 |
| UN proper shipping name | XYLENES |
| Transport hazard class(es) | 3 |
| Packing group | III |

IMDG

| | |
|----------------------------|---------|
| UN number or ID number | UN1307 |
| UN proper shipping name | XYLENES |
| Transport hazard class(es) | 3 |
| Packing group | III |

15. Regulatory information

International Inventories

| | |
|----------------------|---|
| TSCA | Contact supplier for inventory compliance status. |
| DSL/NDL | Contact supplier for inventory compliance status. |
| EINECS/ELINCS | Contact supplier for inventory compliance status. |
| ENCS | Contact supplier for inventory compliance status. |
| IECSC | Contact supplier for inventory compliance status. |
| KECL | Contact supplier for inventory compliance status. |
| PICCS | Contact supplier for inventory compliance status. |
| AICS | Contact supplier for inventory compliance status. |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|---|--------------------------|------------------------------------|
| Xylenes (o-, m-, p- isomers) 1330-20-7 | 100 lb | - |
| Ethylbenzene 100-41-4 | 1000 lb | - |
| Toluene 108-88-3 | 1000 lb | - |
| Benzene 71-43-2 | 10 lb | - |

US State Regulations**California Proposition 65**

This product contains the following proposition 65 chemicals. This product contains the following Proposition 65 chemicals:.

| Chemical name | California Proposition 65 |
|-------------------------|--|
| Ethylbenzene - 100-41-4 | Carcinogen |
| Toluene - 108-88-3 | Developmental |
| Benzene - 71-43-2 | Carcinogen Developmental Male Reproductive |

U.S. State Right-to-Know Regulations**US State Regulations**

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Xylenes (o-, m-, p- isomers) 1330-20-7 | X | - | X |
| Ethylbenzene 100-41-4 | X | - | X |
| Toluene 108-88-3 | X | - | X |
| Benzene 71-43-2 | X | - | X |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

| | | | | |
|-----------------------------------|---------------------------|----------------|--------------------|-----------------------|
| NFWA | Health hazards 3 | Flammability 3 | Instability 0 | Special hazards - |
| HMIS | Health hazards * 3 | Flammability 3 | Physical hazards 0 | Personal protection X |
| <i>Chronic Hazard Star Legend</i> | * = Chronic Health Hazard | | | |

Key or legend to abbreviations and acronyms used in the safety data sheet**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 RTECS (Registry of Toxic Effects of Chemical Substances)
 World Health Organization

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End of Safety Data Sheet

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