



Safety Data Sheet

Date of Issue: 17.07.2020

Date of Expiry: 17.07.2025

1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name: ECP Limited
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Emergency phone number: 0800 243 622 (24 hours)

| Product | Xylene | | | Code | 54508, 54509 |
|-----------|-----------|------|-------------|-----------------|--------------|
| CAS# | HSNO# | UN # | DG Class/es | Packing group # | |
| 1330-20-7 | HSR000983 | 1307 | 3 | III | |

Recommended use: Laboratory Investigations

2: Hazards identification

2.1 GHS Classification

Flammable Liquids (Category C)
Acute toxicity, Oral (Category E)
Acute toxicity, Inhalation (Category D)
Skin irritation (Category A)
Specific Target Organ Toxicity, Inhalation (Category B), Central nervous system, Liver, Kidney
Aquatic toxicity (Acute or Chronic) (Category D)

2.2 GHS Label elements, including precautionary statements

Hazard Pictogram



Signal word : **Danger**

Hazard statement(s)

H226 Flammable liquid and vapour.
H303 May be harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H373 May cause damage to organs (central nervous system, liver, kidney) through prolonged or repeated exposure if inhaled.
H401 Toxic to aquatic life.

Precautionary statement(s)

Prevention

| | |
|------|--|
| P210 | Keep away from heat/sparks/open flames/hot surfaces. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting/equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P264 | Wash skin thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

Response

| | |
|--------------------|--|
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P303 + P361 + P353 | IF ON SKIN (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304 + P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P314 | Get medical advice/attention if you feel unwell. |
| P331 | Do NOT induce vomiting. |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P370 + P378 | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. |

Storage

| | |
|-------------|--|
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |

Disposal

| | |
|------|--|
| P501 | Dispose of contents/container to an approved waste disposal plant. |
|------|--|

3: Composition/information on ingredients

Substance/mixture: substance

3.1 Substances

Hazardous components

| Component | Classification | Concentration |
|------------------|--|----------------------|
| Xylene | 3.1 C; 6.1 E; 6.1 D; 6.3 A; 6.9 B; 9.1 D; H226, H304, H303, H332, H315, H373, H401 | <=100% |

4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Blurred vision, incoordination, headache, nausea, vomiting, dizziness, weakness, anaemia. Prolonged or repeated exposure to skin causes defatting and dermatitis.

5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.3 Further information

Use water spray to cool unopened containers.

6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal.

7: Handling and storage**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits Table

| Component | CAS No. | Value | Control parameters | Basis |
|-----------|-----------|---------|------------------------------|--|
| Xylene | 1330-20-7 | WES-TWA | 50 ppm 217 mg/m ³ | New Zealand. Workplace Exposure Standards for Atmospheric Contaminants |

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|---------------------|
| a) Appearance | |
| Form: | clear, liquid |
| Colour: | colourless |
| b) Melting point/freezing point | < 0 °C |
| c) Initial boiling point and boiling range | 137 - 140 °C - lit. |
| d) Flash point | 25 °C - closed cup |
| e) Upper/lower flammability or explosive limits | |
| Upper explosion limit: | 7 %(V) |
| Lower explosion limit: | 1.1 %(V) |
| f) Vapour pressure | 24 hPa at 37.70 °C |
| g) Vapour density | 3.67 - (Air = 1.0) |
| h) Relative density | 0.86 g/mL at 25 °C |

10: Stability and reactivity

10.1 Conditions to avoid

Heat, flames, and sparks.

10.2 Incompatible materials

Strong oxidizing agents

10.3 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions:

Carbon oxides

11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male - 3,523 mg/kg

Remarks: (ECHA)

Skin corrosion/irritation

Skin - Rabbit - Irritations

Remarks: (IUCLID)

Drying-out effect resulting in rough and chapped skin. After long-term exposure to the chemical: Dermatitis

Serious eye damage/eye irritation

Respiratory or skin sensitisation

In animal experiments: - Mouse - Does not cause skin sensitisation. - OECD Test Guideline 429

Germ cell mutagenicity

Genotoxicity in vitro - Mutagenicity (mammal cell test): chromosome aberration. - with and without metabolic activation - negative
(National Toxicology Program)

Genotoxicity in vitro - Ames test - Salmonella typhimurium - with and without metabolic activation – negative

Carcinogenicity

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

Reproductive toxicity

Specific target organ toxicity - single exposure

May cause respiratory irritation. - Respiratory system

Acute oral toxicity - Gastrointestinal disturbance

Acute inhalation toxicity - mucosal irritations, cough, shortness of breath, may damage respiratory tract, inhalation may lead to the formation of oedemas in the respiratory tract.

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Aspiration may cause pulmonary oedema and pneumonitis.

Potential health effects

Inhalation

Harmful if inhaled. Causes respiratory tract irritation.

Ingestion

May be harmful if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.

Skin

May be harmful if absorbed through skin. Causes skin irritation.

Signs and Symptoms of Exposure

Blurred vision, incoordination, headache, nausea, vomiting, dizziness, weakness, anaemia.

Prolonged or repeated exposure to skin causes defatting and dermatitis.

12: Ecological information

12.1 Adverse effects

Toxic to aquatic life.

13: Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14: Transport Information Table

| | | ADR/RID – European packaging certification | IMDG International Maritime Dangerous Goods Code | IATA – DGR International Air Travel Association – Dangerous Goods Regulations |
|-------------|--------------------------------|---|---|--|
| 14.1 | UN Number | 1307 | 1307 | 1307 |
| 14.2 | UN Proper Shipping name | XYLENES | XYLENES | Xylenes |
| 14.3 | Transport Hazard Class | 3 | 3 | 3 |

| | | | | |
|------|------------------------------|------|-----|-----|
| 14.4 | Packaging group | III | III | III |
| 14.5 | Environmental Hazards | No | No | No |
| 14.6 | Special precautions for user | None | | |

15: Regulatory information

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

National regulatory information

HSNO Group Standard Approval : not required
Tracking Required : not required
Approved Handler Cert : not required

16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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