



Safety Data Sheet

Xylene

1. IDENTIFICATION

GHS Product Identifier

XYLENE

Product Code

AXYLE10001

Company Name

Axieo Specialties New Zealand a Division of Axieo Operations (New Zealand) Limited

Address

119 Carbine Road, Mount Wellington, Auckland
NEW ZEALAND

Telephone/Fax Number

Telephone: +64 9 259 3760

Emergency phone number

0800 154 666

E-mail Address

compliance@axieo.com

Recommended use of the chemical and restrictions on use

Solvent.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.
Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2007 Transport of Dangerous Goods on Land.

3.1C Flammable liquids: medium hazard

6.1D (Dermal) - Substance that is acutely toxic

6.1D (Oral) - Substance that is acutely toxic

6.1D (Inhalation – vapours, dusts or mists) - Substance that is acutely toxic

6.3A Substance that is irritating to the skin

6.4A Substance that is irritating to the eyes

6.7B Substance that is a suspected human carcinogen

6.8B Substance that is suspected to be a human reproductive or developmental toxicant

6.9B (Repeated exposure) - Substance that is harmful to human target organs or systems

9.1D Substance that is slightly harmful to the aquatic environment or is otherwise designed for biocidal action

9.3C Substance that is harmful to terrestrial vertebrates

Hazard Statement (s)

H226 Flammable liquid and vapour.

H312 Harmful in contact with skin.

H302 Harmful if swallowed.

H332 Harmful if inhaled.
H315 Causes skin irritation.
H320 Causes eye irritation
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child .
H373 May cause damage to organs through prolonged or repeated exposure by ingestion , by inhalation.
H402 Harmful to aquatic life.
H433 Harmful to terrestrial vertebrates.

Precautionary statement – Prevention

P102 Keep out of reach of children.
P104 Read Safety Data Sheet before use.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
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 contaminated 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.
P281 Use personal protective equipment as required.

Precautionary statement – Response

P310 Immediately call a POISON CENTER or doctor/physician.
P391 Collect spillage.
INGESTION
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P331 Do NOT induce vomiting.
SKIN
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P353 Rinse skin with water/shower.
P362 Take off contaminated clothing and wash before reuse.
INHALATION
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
EYES
P337+P313 If eye irritation persists: Get medical advice/attention.

Precautionary statement – Storage

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

Precautionary statement – Disposal

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Xylene	1330-20-7	60-100 %
Ethylbenzene	100-41-4	10-30 %

4. FIRST-AID MEASURES

Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Other Information

For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (0800 764 766)

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide, dry chemical or foam.

Unsuitable Extinguishing Media

Do not use water jet.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

Specific Hazards Arising From The Chemical

Flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Wear overalls, impervious gloves and safety glasses. Use in designated areas with local exhaust ventilation, away from sparks, flames and other ignition sources. Use approved flammable liquid storage containers in the work area. Prevent release of vapours and mists into workplace air. Keep containers tightly closed. Take precautionary measures against static discharges. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations.

For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.

Unsuitable Materials

Butyl, Neoprene or nitrile rubber

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
Ethylbenzene	NZ OELs List	TWA	100	ppm	
Ethylbenzene	NZ OELs List	TWA	434	mg/m3	
Ethylbenzene	NZ OELs List	STEL	125	ppm	
Ethylbenzene	NZ OELs List	STEL	543	mg/m3	
Xylene	NZ OELs List	TWA	50	ppm	
Xylene	NZ OELs List	TWA	217	mg/m3	

Biological Limit Values

Name: Xylenes

Determinant: Methylhippuric acids

Specimen: Creatinine in urine.

Value: 1.5g/g

Sampling time: End of shift.

Name: Ethylbenzene

Determinant: Sum of mandelic acid and phenylglyoxylic acid.

Specimen: Creatinine in urine.

Value: 0.7g/g

Sampling time: End of shift at end of work week.

Source: American Conference of Industrial Hygienists (ACGIH)

Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Liquid

Appearance

Liquid

Colour

Colourless

Odour

Aromatic odour.

Decomposition Temperature

Not available

Melting Point

>-48°C

Boiling Point

136-145°C

Solubility in Water

0.175 kg/m³

Solubility in Organic Solvents

Miscible.

Specific Gravity

Not available.

pH

Not applicable.

Vapour Pressure

4.5 kPa(50°C)

0.8-1.2 kPa(20°C)

Vapour Density (Air=1)

3.7

Evaporation Rate

13.5 (di-ethyl ether = 1)

0.76 (n-Butyl acetate=1)

Odour Threshold

0.27 ppm

Viscosity

Refer to Section 9: Kinematic Viscosity and Dynamic Viscosity

Volatile Component

Not available

Partition Coefficient: n-octanol/water

3.12 - 3.2 (log Pow)

Density

870 kg/m³(15°C)

Flash Point

23-27°C(typical)

Flammability

Flammable liquid.

Auto-Ignition Temperature

432-530°C

Flammable Limits - Lower

1% (v)

Flammable Limits - Upper

7.1% (v)

Explosion Properties

Not available

Oxidising Properties

Not available

Kinematic Viscosity

Not available

Dynamic Viscosity

< 0.9 mm²/s(20°C)

Other Information

Surface tension (typical): 28.7 mN/m @ 20°C

10. STABILITY AND REACTIVITY

Reactivity

Refer to Section 10: Possibility of hazardous reactions

Chemical Stability

Stable under normal conditions of storage and handling.

Conditions to Avoid

Heat, open flames and other sources of ignition

Incompatible materials

Strong oxidising agents.

Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon dioxide and carbon monoxide

Possibility of hazardous reactions

Reacts with incompatible materials

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

Not available

Ingestion

Harmful if swallowed. Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Inhalation

Harmful if inhaled. Inhalation of product vapours will cause irritation of the nose, throat and respiratory system.

Skin

Harmful in contact with skin. Irritating to skin. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

Eye

Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Suspected of causing cancer. Ethylbenzene is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC).

Reproductive Toxicity

Suspected of damaging fertility or the unborn child .

Chronic Effects

May cause damage to organs through prolonged or repeated exposure by ingestion, by inhalation.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life. Harmful to terrestrial vertebrates.

Persistence and degradability

Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.

Mobility

If product enters soil, it will be highly mobile and may contaminate groundwater.

Bioaccumulative Potential

Not available

Environmental Protection

Do not discharge this material into waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS**Disposal considerations**

Dispose of waste according to applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain flammable residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Advise flammable nature. Controlled incineration is recommended.

Product Disposal:

Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. In this specific case the product is a solvent-based, flammable substance and therefore can be sent to an approved high temperature incineration plant for disposal. Large volumes may be re-distilled by solvent recovery contractors. Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected. In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further details regarding disposal can be obtained on the EPA New Zealand website under specific group standards.

Container Disposal:

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service. Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous.

14. TRANSPORT INFORMATION

Transport Information

This material is classified as a Class 3 - Flammable Liquid

Must not be loaded in the same freight container or on the same vehicle with:

Class 1: Explosives

Division 2.1: Flammable gases

Division 2.3: Toxic gases

Division 4.2: Spontaneously combustible substances

Division 5.1: Oxidising substances

Division 5.2: Organic peroxides

Class 7: Radioactive materials unless specifically exempted

Must not be loaded in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with:

Division 4.3: Dangerous when wet substances

Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:

Division 4.2: Spontaneously combustible substances

Division 4.3: Dangerous when wet substances

Division 5.1: Oxidising substances

Division 5.2: Organic peroxides

U.N. Number

1307

UN proper shipping name

XYLENES

Transport hazard class(es)

3

Packing Group

III

Hazchem Code

3Y

UN Number (Air Transport, ICAO)

1307

IATA/ICAO Proper Shipping Name

XYLENES

IATA/ICAO Hazard Class

3

IATA/ICAO Packing Group

III

IATA/ICAO Symbol

Flammable Liquid

IMDG UN No

1307

IMDG Proper Shipping Name

XYLENES

IMDG Hazard Class

3

IMDG Pack. Group

III

IMDG Marine pollutant

No

IMDG EMS

F-E,S-D

15. REGULATORY INFORMATION

Regulatory information

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand. All components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempted. Group Standard: Solvents (Flammable, Toxic(6.7)) Group Standard 2006.

HSNO Approval Number

HSR002652

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS amendment: September 2012

1. Identification

SDS Reviewed: August 2011 Supersedes: March 2010

Contact Person/Point

IMPORTANT ADVICE: An MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. The information contained in this MSDS is believed to be correct but is not guaranteed. Prior to using the product(s) referred to in this MSDS, each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace, including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the supplier listed in section 1 of the MSDS. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. Axieo does not accept any other liability either directly or indirectly for any losses suffered in connection with the use and application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

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END OF SDS

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