

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

- 1.1 PRODUCT NAME:** XYLOL
- 1.2 USE OF PRODUCT** Thinner for some Chevaline, Traxx and Protexx products.
- 1.3 SUPPLIER:** Equus Industries Ltd
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- 1.4 EMERGENCY CONTACT:** **National Poison Centre**
Telephone: 0800 764 766
- 1.5 Date of Preparation:** **1 May 2024**

2. Hazards Identification

- 2.1 Statement of Hazardous Nature:**
Classified as dangerous according to New Zealand Hazardous Substances (Minimum degrees of hazard) Regulations 2020.
- 2.2 HSNO Group Standard:**
Solvents (Flammable) 2020
- 2.3 Substance Classification:**

Flammable Liquids	Category 3
Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Eye Damage/Eye Irritation	Category 2A
Specific Target Organ Toxicity (single exposure, narcotic effects)	Category 3
Specific Target Organ Toxicity (repeated exposure)	Category 1
Reproductive Toxicity	Category 2
Aspiration Hazard	Category 1
Hazardous to the aquatic environment, chronic toxicity	Category 2

2.4 GHS Pictograms:



Signal Word: Danger

2.4 Hazard Statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects.

2.5 Prevention Statements:

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.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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.

2.6 Response Statements:

P303 + P361+ P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P331	Do NOT induce vomiting.

2.7 Storage Statements:

P235	Keep cool.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed
P405	Store locked up.

2.8 Disposal:

P501	Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.
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3. Composition/Information on Ingredients

3.1 Hazardous Ingredients:

CAS NO.	COMPONENT	CONCENTRATION (% WEIGHT)
1330-20-7	Xylene	100

4. First Aid Measures

4.1 After Inhalation:

Remove person to fresh air. Allow person to rest. If not breathing, give artificial respiration. Seek medical attention.

4.2 After Skin Contact:

Remove contaminated clothing. Rinse skin immediately with mild soap and plenty of water. Seek medical attention in the event of a skin reaction.

4.3 After Eye Contact:

Hold eye open and rinse with lukewarm water for at least 10 minutes. Seek medical attention.

4.4 After Ingestion:

Do not induce vomiting. Rinse mouth with water. Allow affected person to rest. Seek medical attention.

4.5 Advice to Doctor:

Symptoms and findings:

4.6 Oral:

Gastrointestinal discomfort, nausea, vomiting, lethargy or diarrhea. Treatment should be directed at the control of symptoms and the clinical condition of the patient.

4.7 Inhalation:

Prolonged over exposure to either vapour or mist can cause coughing, shortness of breath, dizziness and drunkenness.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Media:

Carbon dioxide, foam, dry powder. In case of larger fires, water spray should be used.

5.2 Protective Equipment:

Use self-contained breathing apparatus when in close proximity to fire, and wear full body protective clothing.

5.3 Specific Hazards:

Eliminate every possible source of ignition (open flame, sparks, smoking etc).

5.1 Combustion Products:

Carbon monoxide, carbon dioxide, fumes and smoke.

5.2 Precautions in Connection with Fire:

When exposed to ignition source, vapours can burn in open or explode if confined. Vapours may travel along ground before igniting and flash back to vapour source. Fight fire from a safe distance. Heat may build enough pressure to rupture closed containers. Use water spray/fog for cooling. Avoid frothing/steam explosion. Burning liquid may float on water.

5.3 Additional Information:

Flashpoint = 23°C Closed cup

Hazchem Code 3[Y]E

6. Accidental Release Measures

6.1 Preliminary Action and Precautions:

- 6.1.1 Eliminate every possible source of ignition.
- 6.1.2 Evacuate all personnel immediately and ventilate area.
- 6.1.3 Avoid breathing vapour and contact with skin, eyes and clothing.
- 6.1.4 Wear recommended personal protective equipment.
- 6.1.5 Shut off leaks if possible without risk.
- 6.1.6 Dike in the spilled product as much as possible with inert material.
- 6.1.7 Prevent entry of product into sewers, storm water drains and open bodies of water.
- 6.1.8 Collect the spillage in closable, suitable disposal containers.
- 6.1.9 Clean up and spills as soon as possible, using an inert absorbent material and eliminate as hazardous waste.

7. Handling and Storage

7.1 Handling:

- 7.1.1 Always provide adequate ventilation, if necessary, exhaust ventilation.
- 7.1.2 Avoid breathing vapour or mist.
- 7.1.3 Avoid contact with eyes, skin and clothing.
- 7.1.4 Explosion protection required.
- 7.1.5 Precautions required in the handling of solvents must be taken.
- 7.1.6 Use special care to avoid static electric discharges.
- 7.1.7 Wash hands thoroughly after handling, especially before eating, drinking, smoking or using the toilet.

7.2 Storage:

- 7.2.1 Store in a well-ventilated, fireproof place.
- 7.2.2 Store away from sources of ignition, (ie sparks, open flames, heat etc.)
- 7.2.3 Store away from oxidizing agents.
- 7.2.4 Keep containers tightly closed at all times.

8. Exposure Controls and Personal Protection Equipment

8.1 Exposure Limits:

CHEMICAL	CAS NUMBER	REGULATION	LIMIT
Xylene	1330-20-7	WES/TWA	50ppm (217mg/m ³)

8.2 Exposure Controls:

8.2.1 Exposure Controls in the Work Place:

Use only in well-ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general, ventilation is inadequate.

8.2.2 Personal Protection Equipment:

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure, then an approved respirator with a replaceable solvent filter should be used. Reference should be made to Australia/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Device; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australia/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. References 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. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial Clothing.

9. Physical and Chemical Properties

9.1 General Information:

Physical State/Form	Liquid
Colour	Colourless
Odour	Aromatic odor
Flash Point	23°C (Closed cup)
Boiling Point/Range	137-143°C
Melting Point	-34°C
Auto-Ignition Temperature	527°C
Flammable Limits	1.1-7%vol
Vapour Pressure	7.0 mmHg@21°C
Vapour Density (relative to air)	3.7
Specific Gravity	0.8650 – 0.8770 (15.56°C)
Evaporation Rate	0.76 (ASTM 3539, nBuAc=1)
Water Solubility (25°C)	0.02 %w/w

10. Stability and Reaction

10.1 General Information:

This material is stable when properly handled and stored. No hazardous reactions are known.

10.2 Conditions to Avoid:

Heat, sparks, open flame and other ignition sources, and incompatible material.

10.3 Incompatible Materials:

Oxidizing agents, reducing agents, acids, alkalis.

10.4 Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form by incomplete combustion.

11. Toxicological Information

Toxicity and Effects on Humans

11.1 Acute Toxicity:

Acute Oral Toxicity	LD50 Rat:	4300mg/kg
Acute Inhalation Toxicity	LC50 Rat:	5000 ppm/4 hour
Acute Dermal Toxicity	LD50 Rabbit:	>1700mg/kg

11.2 Inhalation:

May cause nasal and respiratory tract irritation, central nervous system effects including excitation, euphoria, contracted eye pupils, dizziness, drowsiness, blurred vision, fatigue, nausea, headache, loss of reflexes, tremors, convulsions, loss of consciousness, coma, respiratory arrest and sudden death could occur as a result of long term and / or high concentration exposure to vapours. May also cause anemia and irregular heart rhythm. Repeated or prolonged exposure may cause behavioural changes.

11.3 Ingestion:

May cause irritation of the digestive tract. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

Aspiration hazard. Aspiration of material into the lungs may cause chemical pneumonitis which may be fatal.

Skin Contact:

May be harmful if absorbed through the skin. Xylene contact causes defatting of the skin with irritation, dryness, and cracking. Blistering may occur, particularly if exposure to concentrated xylene is prolonged and the exposed area of skin is occluded. Xylene liquid or vapour can be absorbed through the skin but not as readily as when inhaled or ingested.

11.5 Eye Contact:

May cause severe irritation, redness, tearing, blurred vision and conjunctivitis.

12. Ecological Information

12.1 Environment Protection:

Prevent product from entering drains, sewers and waterways.

12.2 Ecotoxicity:

For Xylene

Oncorhynchus Mykiss (Rainbow Trout)	EC50 (96hr) 3.3mg/ℓ
Palaemonetes pugio (Daggerblade Grass Shrimp)	EC50 (72hr) 8.5mg/ℓ
Skeletonema. Costatum (Algae)	EC50 (72hr) 10.0mg/ℓ

12.3 Persistence and degradability:

Readily biodegradable.

12.4 Mobility:

In air, xylenes degrade by reacting photochemically produced hydroxyl radicals. In soil it will volatilize and leach into groundwater.

12.5 Bioaccumulative Potential:

Not expected to bioaccumulate significantly.

12.6 Other Adverse Effects:

In view of the high rate of evaporation, the product is unlikely to pose a significant hazard to aquatic life.

13. Disposal Consideration

13.1 Material

Ensure compliance with National, Regional and local authority regulations. Allow empty packaging to vent away from any sources of ignition. Do not cut or weld empty drums.

14. Transport Information

14.1 Land Transport:

Classified as dangerous goods under NZS:5433:2007 Transport of Dangerous Goods on Land. UN

Number	1307
Proper Shipping Name:	Xylenes
Class	3
Packing group	III
Hazchem Code	3[Y]E

15. Regulatory Information

15.1 HSNO Approval:

Approved Code: HSR 002650
HSNO Group Standard: Solvents (Flammable)2020

15.2 HSNO Controls:

Approved Handler Required if present in quantities greater than 250L (when containers greater than 5L) or 500L (when containers up to and including 5L).

16. Other Information

16.1 Abbreviations/Terminology:

HSNO	Hazardous substances and New Organisms Act
CAS	Chemical Abstract Service
LD50, LC50	Lethal dose/Lethal Concentration – Dose or concentration required to produce the specified effect in 50% of the sample studied.
EC50	Half maximal effective concentration.
WES	Workplace Exposure Standard (NZ Department of Business, Innovation and Employment)
TWA	Time weighted average exposure level designed to protect from the effects of long-term exposure.
STEL	Short-term Exposure Level (15 minutes)
VOC	Volatile Organic Compound

16.2 Issue Information

Date of Preparation:	1 May 2024
Reasons:	Update and format change
Replaces:	24 August 2016

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