HURST SCIENTIFIC

Safety Data Sheet
XYLENE SULFUR FREE

SECTION 1: Identification

1.1 GHS Product identifier

Product name	XYLENE SULFUR FREE
Product number	XLS-5L, -10L, -20L
Brand	Hurstchem

1.2 Xylene

Synonyms – Dimethylbenzene, Xylol.

1.3 Recommended use of the chemical and restrictions on use

Laboratory Solvent

1.4 Supplier's details

Name	Hurst Scientific
Address	2/36 Hensbrook Loop 6112 Forrestdale WA Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

1.5 Emergency phone number

Australian Poisons Information Centre 131 126 Australian Emergency Services 000

SECTION 2: Hazard identification

General hazard statement
Classified as a Hazardous substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Flammable liquids, Cat. 3
- Aspiration hazard, Cat. 1
- Skin corrosion/irritation, Cat. 2
- Acute toxicity, dermal, Cat. 4
- Acute toxicity, inhalation, Cat. 4
- Specific target organ toxicity (single exposure), Cat. 3

2.2 GHS label elements, including precautionary statements

Pictograms

1. Flame; 2. Exclamation mark; 3. Health hazard

Signal word **Danger**

Hazard statement(s)

H226	Flammable liquid and vapor
H312	Harmful in contact with skin
H332	Harmful if inhaled
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H373	May cause damage to organs [organs] through prolonged or repeated exposure [route]

Precautionary statement(s)

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.
P280	Wear protective gloves/eye protection/face protection/protective clothing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378	In case of fire: Use … to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to …
P302+P352	IF ON SKIN: Wash with plenty of water/...
P312	Call a POISON CENTER/doctor/.../ if you feel unwell.
P321	Specific treatment (see … on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P331	Do NOT induce vomiting.
P405	Store locked up.
P264	Wash … thoroughly after handling.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P314	Get medical advice/attention if you feel unwell.

2.3 Other hazards which do not result in classification

Classified as a Dangerous goods according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. XYLENES (MIXED)

Concentration	Balance
CAS no.	1330-20-7

2. ETHYLBENZENE

Concentration	10-30%
CAS no.	100-41-4

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	Evacuate to fresh air immediately. If there are signs of poisoning seek immediate medical attention or contact Poisons Information Centre. If unconscious place in recovery position, provide artificial respiration if breathing ceases. Seek immediate medical attention.
In case of skin contact	Remove contaminated clothing and wash affected area with soap and water thoroughly. If irritation develops, seek medical attention.
In case of eye contact	Flush eyes with gentle flowing water for at least 20 minutes. Seek medical attention.
If swallowed	DO NOT induce vomiting. Rinse mouth out thoroughly. Seek immediate medical attention.

Personal protective equipment for first-aid responders
Eye wash station, safety shower and First Aid kit.

4.3 Indication of immediate medical attention and special treatment needed, if necessary
Treat symptomatically based on judgement of doctor and individual reactions of patient.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use Alcohol resistant foam, standard foam, Carbon Dioxide or dry chemical.

5.2 Specific hazards arising from the chemical
Toxic gases and smoke may evolve. May form flammable mixtures with air.

5.3 Special protective actions for fire-fighters
Wear SCBA (Self-Contained Breathing Apparatus) and full
protective equipment.

Further information
Hazchem code 3Y

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Shut off all possible sources of ignition. Evacuate all unnecessary personnel. Increase ventilation to avoid inhalation of vapours. Wear appropriate protective clothing. If possible, contain the spill. Avoid walking through spilled product as it may be slippery when spilt. Absorb with vermiculite or
similar inert substance and seal in properly labelled containers for disposal.

6.3 Methods and materials for containment and cleaning up
Absorb with vermiculite or similar and place into a suitably labelled container. Dispose of waste according to local authority guidelines. Do not
contaminate drains or waterways.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure an eye bath and safety shower are readily available for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Avoid prolonged or repeated exposure. Operations should be carried out in an efficient fume hood or equivalent system.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated, fire-proof area away from direct sunlight. Keep containers tightly sealed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Ground and bond storage containers. Store away from incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1 National Exposure Standards

Xylene: TWA: 80ppm (350mg/m3)
STEL: 150ppm (655mg/m3)
Ethyl Benzene: TWA: 100ppm (434mg/m3)
STEL: 125ppm (543 mg/m3)

8.2 Appropriate engineering controls

A system of local exhaust is recommended to keep employee exposures as low as possible, because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Use explosion proof ventilation to control airborne concentrations below the exposure guidelines/limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Safety glasses or goggles.

Skin protection
Chemical-resistant gloves and laboratory coat.

Biological Limit Values
Not allocated for this product.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear colourless liquid
Odor	Aromatic odour
Melting point/freezing point	-48°C
Boiling point or initial boiling point and boiling range	136-145°C
Flammability	Flammable liquid
Lower and upper explosion limit/flammability limit	1-7.1% by volume in air
Flash point	23-270C (Abel)
Auto-ignition temperature	432-530°C
pH	N/A
Solubility	0.175kg/m3 in water
Vapor pressure	4.5kPa (@ 500C)
Density and/or relative density	0.871
Relative vapor density	3.7

SECTION 10: Stability and reactivity

10.1 Reactivity

Non-reactive under recommended conditions for use and storage.

10.2 Chemical stability

Stable under recommended conditions for use, storage and temperature.

10.3 Possibility of hazardous reactions
Polymerisation not expected occur.

10.4 Conditions to avoid
Elevated temperatures and ignition sources.

10.5 Incompatible materials
Strong oxidising agents.

10.6 Hazardous decomposition products
Toxic gases and smoke may evolve.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Inhalation: This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 10 - 20 mg/L.
Skin contact: This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 1,000 - 2,000 mg/Kg.

Skin corrosion/irritation
This material has been classified as a Category 2 Hazard (reversible effects to skin).

Serious eye damage/irritation
This material has been classified as not corrosive or irritating to eyes.

Respiratory or skin sensitization
Inhalation: this material has been classified as “not a respiratory sensitiser”. Skin: this material has been classified as “not a skin sensitiser”.

Germ cell mutagenicity
No classification.

Carcinogenicity
Not classified according to the IARC monographs.

Reproductive toxicity
No classification.

Specific target organ toxicity (STOT) - single exposure
This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in respiratory irritation.

Specific target organ toxicity (STOT) - repeated exposure
This material has been classified as a Category 2 Hazard.

Aspiration hazard
This material has been classified as Aspiration Hazard – Category 1

Additional information
No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:
Acute Effects
Inhalation: Harmful if inhaled. Material is an irritant to mucous membranes and respiratory tract.

Skin contact: Harmful in contact with skin. Can be absorbed through the skin with resultant toxic effects. Contact with skin will result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. May cause lung damage if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary oedema.

Eye contact: May be an eye irritant.

SECTION 12: Ecological information

Toxicity
No information available.

Persistence and degradability
No information available.

Bioaccumulative potential
No information available.

Mobility in soil
No information available.

Environmental fate (exposure)
Environmental fate (exposure) Do not contaminate drains and waterways.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Refer to local authority guidelines. Advise flammable nature. Should be suitable for disposal by licensed contractor.

Packaging disposal
Refer to local authority guidelines. Advise flammable nature. Should be suitable for disposal by licensed contractor.

Other disposal recommendations
Special precautions Nil.

SECTION 14: Transport information

14.1	UN Number	1307
	Hazchem emergency action code (EAC)	3Y
14.2	UN Proper Shipping Name	Xylenes
14.3	Transport hazard class(es)	3
14.4	Packing group	III

Special precautions for user
Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), toxic substances (Class 6.1), infectious substances (Class 6.2) or radioactive substances (Class 7). Exemptions may apply
Hazchem Code
3Y

SECTION 15: Regulatory information

15.2 Chemical Safety Assessment

• Poison Schedule: S6
• **TWA (Time Weighted Average):** The average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day week.
• **STEL (Short Term Exposure Limit):** The average airborne concentration over a 15-minute period which should not be exceeded at any time during a normal eight-hour workday.

SECTION 16: Other information

16.1 Further information/disclaimer

This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011). The information contained within is believed to be accurate at the date of

preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used.

16.2 Preparation information

References

1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Canprint: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).