Elite Advanced Materials Sdn Bhd

SAFETY DATA SHEET

According to Regulation (EC) No453/2010

SDS –XYLS-0001
Version 1.1
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www.eamaterials.com

Section 1: IDENTIFICATION OF SUBSTANCE/ MIXTURE AND OF THE COMPANY

1.1 Product identifier

Product name	:	**Xylene Substitute**
Included product code	:	XYLS201-2.5P, XYLS201-3.8P, XYLS201-10P, XYLS201-25P

1.2 Relevant identified uses of the substance or mixture

Identified uses	:	Laboratory chemicals, Manufacture of substances.
Uses advised against	:	Not applicable.

1.3 Details of the supplier of the safety data sheet

Company	:	Elite Advanced Materials Sdn Bhd No1, Jalan KPK 1/2, Kawasan Perindustrian Kundang, 48020 Rawang, Selangor, Malaysia.
E-mail address	:	enquiry@eamaterials.com

1.4 Emergency telephone number

Emergency	:	+603-60343766 (Local business hours only)

Section 2: HAZARDS INDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flammable liquids	Category 3
Aspiration hazard	Category 1

2.2 Label elements

Labeling in compliance to Regulation (EC) No. 1272/2008 [CLP/GHS]

Hazard pictograms

GHS02

GHS08

Signal word

Danger

Hazard statement

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways.

Precautionary statements

P210	Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.
P240	Ground/bond container and receiving equipment.
P280	Use personal protective equipment as required.

Response

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Do NOT induce vomiting.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

2.3 Other hazards

No data available.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

This material is defined as a complex substance

Hazardous components according to Regulation (EC) No 1272/2008

Component	Identity	Classification Code	H-Code	Concentration
Naphtha (Petroleum)	CAS-No.: 64742-48-9	Flam. Liq. 3 Asp.Tox. 1	H226 H304	≤ 100 %

Section 4: FIRST AID MEASURES

4.1 Description of First Aid measures

General information

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

After eye contact

Flush eyes with water as a precaution for at least 15 minutes. If eye irritation persists, consult a physician.

After skin contact

Rinse well with plenty of water and soap for at least 15 minutes. If skin irritation persists, consult a physician.

After swallowing

Do NOT induce vomiting. If vomiting occurs, lean victim forward to reduce the risk of aspiration. Consult a physician immediately.

Inhalation

Move person into fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Consult a physician.

4.2 Most important symptoms and delayed symptoms and effects

Prolonged or repeated contact with skin may cause: defatting, Dermatitis, Contact with eyes can cause:, Redness, Blurred vision, Provokes tears, Effects due to ingestion may include:, Gastrointestinal discomfort, Central nervous system depression, Lung irritation, chest pain, pulmonary edema, giddiness, slowed reaction time, slurred speech, Headache, Dizziness, Drowsiness, Unconsciousness.

4.3 Indication of any immediate medical attention and special treatment

No data available.

Section 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use dry sand, alcohol-resistant foam, dry chemical, or carbon dioxide (CO_2) to extinguish flames.

Unsuitable extinguishing media

Water may be ineffective, this material is lighter than water and insoluble in water. The fire could easily be spread by the use of water in an area where the water cannot be contained.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

5.3 Advice for fire-fighters

Wear full protective clothing and self-contained breathing apparatus if necessary.

5.4 Further information

Use water spray to cool unopened containers.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal protective equipment is required during handling. 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. Take precautionary measures against static discharges.

6.2 Environmental precautions

Do not discharge into drains or waterways. Prevent further leakage or spillage if safe to do so. Collect the spillage.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.

6.4 Reference to other sections

For disposal see Section 13.

Section 7: HANDLING AND STORAGE

7.1 Precaution for safe handling

Personal protective equipment is required during handling. Do not get in eyes, on skin, or on clothing. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Use only non-sparking tools. Use explosion-proof equipment. Take measures to prevent the build-up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

No smoking while handling the chemical. Store in cool place. Container must closed tightly and stored in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use

No further relevant information available.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component	ACGIH TLV (8 hr)	Source	Year
Naphtha (Petroleum)	RCP - TWA: 177 ppm	Exxon Mobil	2011
	PEL: 400ppm	Malaysia PEL	2011

(OSHA)

8.2 Exposure control

Personal protection measures, such as personal protective equipment

Never eat, drink or smoke during handling the chemical. Ensure that there is adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of workday.

Eye/ face protection

Protective eyeglasses or chemical safety goggles is required during handling. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear gloves during handling the chemical. 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body protection

Wear appropriate protective gloves and clothing to prevent skin exposure. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	:	Liquid
Color	:	Colorless
Odor	:	Faint
Odor threshold	:	Not determined
pH-value	:	Not determined
Melting point/Range	:	Not determined
Boiling point/Range	:	179 to 188 °C @ 760 mmHg
Flash point	:	54 °C [closed cup]
Evaporation rate	:	Not determined
Explosion limit-LEL	:	0.7 % (V)
Explosion limit-UEL	:	5.0 % (V)
Vapour pressure	:	0.07kPA at 20 °C
Vapor density (air=1)	:	5.4 at 101 kPa
Density	:	0.760 g/cm^{3}at 15 °C
Bulk density	:	Not determined
Solubility(ies)	:	Not determined
Water solubility	:	Insoluble
Partition coefficient:n-octanol/water	:	Log Pow: > 4
Auto-ignition temperature	:	359 °C
Decomposition temperature	:	Not determined
Viscosity	:	1.4 cSt at 40°C
Explosive properties	:	Not determined
Oxidising properties	:	Not determined

(EXXONMOBIL, 2017)

9.2 Other information

Not applicable.

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials

Strong oxidizing.

10.6 Hazardous decomposition products

Material does not decompose at ambient temperatures.

Section 11: TOXICOLOGY INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral	-> 5000 mg/kg	(Rat)
LD50 Dermal	-> 5000 mg/kg	(Rabbit)
LC50 Inhalation	-> 5000 mg/m^3/8 hrs	(Rat)

Skin corrosion/irritation

Remarks : Minimally Toxic. Based on available literature.
: Mildly irritating to skin with prolonged exposure. Based on available literature.

Serious eye damage/eye irritation

Remarks : May cause mild, short-lasting discomfort to eyes. Based on available literature.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available.

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.
NTP: No data available
ACGIH: No data available
OSHA: No data available.

Reproductive toxicity

No data available.

Specific target organ toxicity – single exposure

May cause drowsiness or dizziness. Not expected to cause organ damage from a single exposure.

Specific target organ toxicity – repeated exposure

Not expected to cause organ damage from prolonged or repeated exposure.
Ingestion - May cause damage to organs through prolonged or repeated exposure. - Nervous system.

Aspiration hazard

May be fatal if swallowed and enters airways.

Additional Information

No data available.

Section 12: ECOLOGY INFORMATION

12.1 Ecotoxicity:

Not expected to be harmful.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable
vPvB : Not applicable

12.6 Other adverse effects

Toxic to aquatic life.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment method

Product

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

Section 14: TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 3295	IMDG: 3295	IATA-DGR: 3295

14.2 UN proper shipping name

ADR/RID:	HYDROCARBONS, LIQUID, N.O.S.
IMDG:	HYDROCARBONS, LIQUID, N.O.S.
IATA-DGR:	HYDROCARBONS, LIQUID, N.O.S.

14.3 Transport hazard class (es)

ADR/RID: 3	IMDG: 3	IATA-DGR: 3

14.4 Packaging group

ADR/RID: III	IMDG: III	IATA-DGR: III

14.5 Environmental hazards

ADR/RID: yes	IMDG: Marine pollutant: no	IATA-DGR: no

14.6 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available.

14.7 Special precautions for user

No data available.

Section 15: REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

Section 16: OTHER INFORMATION

This information is based on present level of our knowledge, however, this shall not constitute a guarantee product features and shall not establish a legally valid contractual relationship.

Abbreviations:

ADR : European agreement concerning the international carriage of dangerous goods by road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association

ICAO : International Civil Aviation Organization

RID : Regulations concerning the International Carriage of Dangerous goods by rail.

Notice to reader

The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the products and should not be construed as any guarantee of technical performance or suitability for particular application.

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