

SAFETY DATA SHEET

REGULATIONS 1907/2006 (REACH) , 1272/2008 (CLP), EC 453/2010 & 830/2015

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

GHS Product Identifier

Trade name

Chemical Name

CAS No.

EINECS No.

.

XYLENE ISOMERS

Mixed Xylene

Dimethyl benzene , Xylene (mixture).

Mixture

Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s)

Industrial. Formulation. Solvent

Uses advised against

Other than identified

1.3 Details of the supplier of the Safety Data Sheet

Company Identification

Gapuma Group Ltd

No.4 Kew Wharf,

8 Kew Bridge Road

London TW8 0FJ

United Kingdom

T: +44 208 969 2056

Telephone

E-Mail (competent person)

gapumaSDS@gapuma.com

1.4 Emergency telephone number

Emergency Phone No.

+44 208 969 2056 (9-5 pm UK time)

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP)

Physical hazards : Flam Liq.3 H226;

Human health : Skin Irrit. 2; H315 ; Eye Irrit. 2 H319;

STOT SE3 H335 Asp. Tox 1 H304

STOT RE 2; H373

Environment : Not classified

2.2 Label elements

2.2.1 Label elements

GHS Product Identifier

Hazard Pictogram

According to Regulation (EC) No. 1272/2008 (CLP)

Xylene (Mixture)



Signal word(s)

DANGER

Hazard statement(s)

H226

Flammable liquid and vapour

H304

May be fatal if swallowed and enters airways.

H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
H335 May cause respiratory irritation
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection / face protection.
P301+P310 - IF SWALLOWED : Immediately call a POISON CENTRE doctor.
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 dry sand, dry chemical or alcohol-resistant foam to extinguish
P501: Dispose of contents/container to approved disposal sites in accordance with local/regional/national/international regulation

2.3 Other hazards

2.4 Additional Information

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	Index no	EC No.	CAS No.	Hazard pictogram(s) and Hazard statement(s)
Xylene (mix)	> 80	601-022-00-9	215-535-7	1330-20-7	GHS 02,07,08 H226, H304, H315, H319, H332, H335, H373
Ethyl benzene	<20	601-023-00-4	202-849-4	100-41-4	GHS 02,07,08 H226, H304, H332, H373
Toluene	> 0.1 <= 1	601-021-00-3	203-625-9	108-88-3	GHS 02,07 H226, H304

3.2 Mixtures

3.3 Additional Information Classification acc. to GHS: (Flam. Liq. 3) H226; (Acute Tox 4) H312; (Acute Tox 4) H332 (Skin Irrit. 2) H315; (Eye Irrit. 2) H319; (STOT SE 3) H335; (STOT RE 2) H373; (Asp. Tox. 1) H304
For full text of H/P phrases see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical treatment.

Skin Contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water.

Eye Contact

Immediately flush eyes for at least 15 minutes. Irrigate eyes thoroughly whilst lifting eyelids.

Ingestion	IF SWALLOWED: Do not induce vomiting wash out mouth with water. Seek medical treatment.
4.2 Most important symptoms and effects, both acute and delayed	Causes irritation to eyes and skin. Causes allergic reaction in susceptible people. Causes coughing. Causes breathing difficulty.
4.3 Indication of immediate medical attention and special treatment needed	Get medical advice/attention if you feel unwell. If eye irritation persists, get medical advice/attention.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	
Suitable Extinguishing Media	In case of fire use carbon dioxide or dry agent - never use water.
Unsuitable Extinguishing Media	Do not use water jet or waterspray.
5.2 Special hazards arising from the substance or mixture	May give off noxious and toxic fumes in a fire.
5.3 Advice for fire-fighters	A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Contain run-off water with, for example, temporary earth barriers.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Use personal protective equipment as required. Eliminate sources of ignition. Evacuate area. Avoid inhalation of vapours.
6.2 Environmental precautions	In case of fire, stop leak if safe to do so. Do not allow to enter drains, sewers or watercourses.
6.3 Methods and material for containment and cleaning up	Do not absorb spillage in sawdust or other combustible material. Absorb spillage in dry sand. Collect as much as possible in clean container for reuse or disposal.
6.4 Reference to other sections	Wear protective clothing as per section 8.
6.5 Additional Information	

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures.
7.2 Conditions for safe storage, including any incompatibilities	
Storage Temperature	Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Store in a tightly closed container. Protect from sunlight.
Storage Life	Refer to container labels.
Incompatible materials	Incompatible with strong oxidizing substances.
7.3 Specific end use(s)	See Sec 1.2

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	
8.1.1 Occupational Exposure Limits	As per UK EH40 WEL Xylene (Mix): TWA 8hr: 50ppm / 220 mg/m ³ STEL (15 Min) : 100ppm / 441 mg/m ³ Ethyl benzene: TWA 8Hr: 100ppm / 441 mg/m ³ STEL 15 Min: 125 ppm / 552 mg/m ³

8.1.2 Biological limit value

Toluene: TWA 8Hr: 50ppm / 191 mg/m³
 STEL 15 Min: 100 ppm / 384 mg/m³

No data.

8.1.3 PNECs

Xylene (mix) : Fresh water : 0,327 mg/l
 Xylene (mix) : Marine water : 0,327 mg/l
 Xylene (mix) : Fresh water sediment : 12,46 mg/kg
 Xylene (mix) : Marine water sediment : 12,46 mg/kg
 Xylene (mix) : Soil : 2,31 mg/kg
 Xylene (mix) : Sewage treatment plant : 6,58 mg/l

Ethyl benzene : Fresh water : 0,1 mg/l
 Ethyl benzene : Marine water : 0,01 mg/l
 Ethyl benzene : Fresh water sediment : 13,7 mg/kg
 Ethyl benzene : Marine water sediment : 1,37 mg/kg
 Ethyl benzene : Soil : 2,68 mg/kg
 Ethyl benzene : Intermittent release : 0,1 mg/l
 Ethyl benzene : Sewage treatment plant : 9,6 mg/l

Toluene : Fresh water : 0,68 mg/l
 Toluene : Marine water : 0,68 mg/l
 Toluene : Fresh water sediment : 16,39 mg/l
 Toluene : Marine water sediment : 16,39 mg/l
 Toluene : Soil : 2,89 mg/kg
 Toluene : Sewage treatment plant : 13,61 mg/l

DNELs (Derived No Effect Level)

Xylene (mix) : Worker, acute - local effects, inhalation : 289 mg/m³
 Xylene (mix) : Worker, acute - systemic effects, inhalation : 289 mg/m³
 Xylene (mix) : Worker, long-term - systemic effects, inhalation : 77 mg/m³
 Xylene (mix) : Worker, long-term - systemic effects, dermal : 180 mg/kg
 Xylene (mix) : Consumer, acute - local effects, inhalation : 174 mg/m³
 Xylene (mix) : Consumer, acute - systemic effects, inhalation : 174 mg/m³
 Xylene (mix) : Consumer, long-term - systemic effects, inhalation : 14,8 mg/m³
 Xylene (mix) : Consumer, long-term - systemic effects, dermal : 108 mg/kg
 Ethyl benzene : Worker, long-term - systemic effects, inhalation : 77 mg/m³
 Ethyl benzene : Worker, long-term - systemic effects, dermal : 180 mg/kg bw/ day
 Ethyl benzene : Consumer, long-term - systemic effects, inhalation : 15 mg/m³
 Ethyl benzene : Consumer, long-term - systemic effects, oral : 1,6 mg/kg bw/ day
 Toluene : Worker, acute - local effects, inhalation : 384 mg/m³
 Toluene : Worker, acute - systemic effects, inhalation : 384 mg/m³
 Toluene : Worker, long-term - local effects, inhalation : 192 mg/m³
 Toluene : Worker, long-term - systemic effects, inhalation : 192 mg/m³
 Toluene : Worker, long-term - systemic effects, dermal : 384 mg/kg bw/ day
 Toluene : Consumer, acute - local effects, inhalation : 226 mg/m³
 Toluene : Consumer, acute - systemic effects, inhalation : 226 mg/m³
 Toluene : Consumer, long-term - systemic effects, inhalation : 56,5 mg/m³
 Toluene : Consumer, long-term - systemic effects, dermal : 226 mg/kg bw/ day
 Toluene : Consumer, long-term - systemic effects, oral : 8,13 mg/kg bw/ day

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Use good personal hygiene practices.

8.2.2 Personal protection equipment

Eye/face protection

Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other)

Wear suitable protective clothing and gloves. Impervious gloves (EN 374).



Respiratory protection

Wear suitable respiratory protective equipment.



Thermal hazards

None known

8.2.3 Environmental Exposure Controls

See sections 6, 7, 12 and 13.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance @20°C	Clear liquid
Colour	Colourless
Odour	Characteristic Aromatic
Odour Threshold (ppm)	0.27 ppm
pH (Value)	Not applicable
Melting/Freezing point	< -48 °C
Boiling point/boiling range (°C):	136 - 145 °C at 1013 hPa
Flash Point (°C)	23 - 29 °C
Evaporation rate	0,76 (Butyl acetate = 1) 13,5 (Diethyl ether =1)
Flammability	Flammable.
Explosive limit ranges.	1,0 - 7,1 vol.%
Vapour Pressure	0,8 - 1,2 kPa; 20°C
Vapour Density (Air=1)	3.7
Density	0.87 g/cm ³ at 20 °C
Solubility (Water)	approx. 0,02 g/100 ml
Solubility (Other)	
Partition Coefficient (n-Octanol/water)	3.1
Auto Ignition Temperature (°C)	432- 530 °C
Decomposition Temperature (°C)	No data available.
Viscosity (mPa.s)	< 0,9 mm ² /s (Kinematic)
Oxidising properties	no oxidising properties

9.2 Other information

Min ignition energy : 0,2 mJ ;Surface tension: : 28,7 mN/m
Mol.Formula: C₈H₁₀ Mol.Wt: 106,2 g /mol

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Reacts violently with oxidizing agents and strong acids.
10.2 Chemical stability	Stable at ambient temperatures.
10.3 Possibility of hazardous reactions	Vapor mixes readily with air forming explosive mixtures.
10.4 Conditions to avoid	Keep away from above substances , oxidisers, heat, flames or ignition sources.
10.5 Incompatible materials	Oxidizing agents , Strong acids , Rubber , Several synthetics .
10.6 Hazardous Decomposition Product(s)	Reaction products may include acidic and toxic gases.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Substances

Acute toxicity

Ingestion

Mix-Xylene LD50 (Rat Oral) : > 2000 mg/kg bw
Ethyl Benzene LD50 (Rat Oral) : > 3500 mg/kg bw
Toluene LD50 (Rat Oral) : > 5580 mg/kg bw

Inhalation

Mix-Xylene LC50 (Rat Inh) : > 20 mg/l
Ethyl Benzene LC50 (Rat Inh) : > 9.6 mg/l
Toluene LC50 (Rat Inh) : > 28.1mg/l

Skin Contact

Mix-Xylene LD50 (Rat Dermal) : > 2000 mg/kg bw
Ethyl Benzene LD50 (Rat Dermal) : > 15000 mg/kg bw
Toluene LD50 (Rat Dermal) : > 5000 mg/kg bw

Eye Contact

Rabbit (Eye): Serious eye irritant

Skin corrosion/irritation

Repeated or prolonged skin contact may cause dermatitis and defatting. Skin contact can damage eczema.

Serious eye damage/irritation

Irritating to eyes

Respiratory or skin sensitization

Non-sensitising.

Mutagenicity

Non-mutagenic

Carcinogenicity

Non-carcinogenic

Reproductive toxicity

Non-reprotoxic

STOT - single exposure

To human : Respiratory tract irritation

STOT - repeated exposure

To human : May cause damage to organs. Target organ(s) :
Central nervous system , Hearing , Kidneys , Liver

Aspiration hazard

May be fatal if swallowed and enters airways.

11.1.2 Mixtures

11.2 Other information

Kidney - Irregularities - Based on Human Evidence

Skin - Dermatitis - Based on Human Evidence

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Xylene (mix) : LC50 (Fish, 96 h) : 1-10 mg/l
Xylene (mix) : EC50 (Algae, 72 h) : 1-10 mg/l
Xylene (mix) : EC50 (Daphnia magna, 48 h) : 1-10 mg/l
Ethyl benzene : LC50 (Fish, 96 h) : >10 mg/l (Pimephales promelas)
Ethyl benzene : EC50 (Daphnia magna, 48 h) : >1,8 mg/l
Toluene : LC50 (Fish, 96 h) : 5,5 mg/l (Oncorhynchus kisutch)
Toluene : EC50 (Algae, 72 h) : 12,5 mg/l
Toluene : EC50 (Daphnia magna, 48 h) : 3,8 mg/l

12.2 Persistence and degradability

Xylene (Mix) : Biodegradable
Ethyl benzene : Readily biodegradable .
Toluene : Readily biodegradable

12.3 Bioaccumulative potential

Xylene (mix): Little chance on bioaccumulation .

Ethyl benzene : No bioaccumulation .

Toluene : Bioaccumulation not expected

12.4 Mobility in soil

The product is not miscible with water..

12.5 Results of PBT and VPvB assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects Not known

13. SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 **Waste treatment methods** Dispose of contents and packing in accordance with local, state or national legislation. Normal disposal is via incineration operated by an accredited disposal contractor.
- 13.2 **Additional Information** Packing is to be used exclusively for the packing of this product. After use, empty and close the packing very carefully

14. SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID)

- 14.1
- | | |
|----------------------------|---------|
| UN number | UN 1307 |
| Proper Shipping Name | XYLENES |
| Transport hazard class(es) | 3 |
| Packing Group | III |
| Hazard label(s) | |



Environmental hazards No

Special precautions for user

14.2 Sea transport (IMDG)

- | | |
|------------------------------|---------|
| UN number | UN 1307 |
| Proper Shipping Name | XYLENES |
| Transport hazard class(es) | 3 |
| Packing Group | III |
| Marine Pollutant | No |
| Special precautions for user | |

14.3 Air transport (ICAO/IATA)

- | | |
|------------------------------|---------|
| UN number | UN 1307 |
| Proper Shipping Name | XYLENES |
| Transport hazard class(es) | 3 |
| Packing Group | III |
| Environmental hazards | No |
| Special precautions for user | |

14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Haz Identification no: 30 EmS: (F-E ; S-D)
Ship Type: 2 Pollution Category: Y

15. SECTION 15: REGULATORY INFORMATION

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture** This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) EC 453/2010 & 830/2015.
- 15.1.1 **EU regulations**
- Authorisations and/or restrictions on use Not subject to international restrictions.
- 15.1.2 **National regulations**

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

References:

1. CLP Harmonised classification:

<https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/87871>

H226 Flammable liquid and vapour
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
H335 May cause respiratory irritation
H373 May cause damage to organs through prolonged or repeated exposure.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P261 Avoid breathing fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection / face protection.

P301+P310 - IF SWALLOWED : Immediately call a POISON CENTER or doctor.

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 dry sand, dry chemical or alcohol-resistant foam to extinguish

P501: Dispose of contents/container to approved disposal sites in accordance with local / regional/national/international regulation

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