

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

1.1 Product Identifier:

Product ID: Xylene

Product Name: Xylene

1.2 Relevant Identified Uses of the Substance or Mixture:

Solvent

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer's Name: Gadot Terminals (1985) Ltd.

Address: 5 Hamelacha St., Haogen Building, Poleg Industrial Area, P.O.B 8751 , IL

Information Phone Number: +972-9-8929500 (sds-gadot@gadot.com)

Fax: +972-98653385

1.4 Emergency Information:

Emergency Phone: 972-73-2733200 Israel Ministry of Environmental Protection. 972-4-7771900 Rambam Poison Information.

SECTION 2) HAZARDS IDENTIFICATION

2.1 Classification

Acute toxicity Dermal - Category 4

Acute toxicity Inhalation - Category 4

Acute toxicity Oral - Category 4

Chronic aquatic toxicity - Category 2

Eye Irritation - Category 2

Flammable Liquids - Category 3

Reproductive Toxicity - Category 2

Skin Irritation - Category 2

Specific Target Organ Toxicity - Repeated Exposure - Category 2

2.2 Label Elements

Pictograms



Signal Word

Warning

Hazardous Statements - Health

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H361 - Suspected of damaging fertility or the unborn child

H315 - Causes skin irritation

H373 - May cause damage to organs through prolonged or repeated exposure.

Hazardous Statements - Physical

H226 - Flammable liquid and vapor

Hazardous Statements - Environmental

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements - Prevention

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 - Use only outdoors or in a well-ventilated area.

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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 action to prevent static discharges.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

Precautionary Statements - Response

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P312 - Call a POISON CENTER/doctor if you feel unwell.

P321 - Specific treatment (see Section 4 on this SDS).

P362 + P364 - Take off contaminated clothing. And wash it before reuse.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301 + P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 - Rinse mouth.

P391 - Collect spillage.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P370 + P378 - In case of fire: Use carbon-dioxide, alcohol foam, water spray or dry chemical to extinguish.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P314 - Get Medical advice/attention if you feel unwell.

Precautionary Statements - Storage

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

P405 - Store locked up.

Precautionary Statements - Disposal

P501 - Dispose of contents/container in accordance with local/national/international regulation. Waste management should be in full compliance with federal, state and local laws

2.3 Other hazards

No data available.

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	GHS Classifications	% By Weight	EC No
0001330-20-7	XYLENE	Acute Tox. Derm. 4, H312; Acute Tox. Inh. 4, H332; Acute Tox. Oral 4, H302; Aquatic Chronic 2, H411; Eye Irr. 2, H319; Flam. Liq. 3, H226; Repr. 1A, H360Df; Repr. 1A, H360Fd; Repr. 2 (d), H361d; Repr. 2 (f), H361f; Repr. 2 (fd), H361fd; Repr. 2, H361; Skin Irr. 2, H315; STOT RE 2, H373	100.00%	215-535-7

SECTION 4) FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation

Eliminate all ignition sources if safe to do so.

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor.

Eye Contact

Remove source of exposure or move person to fresh air.

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open.

Remove contact lenses, if present and easy to do.

Continue rinsing for a duration of 30 minutes or until medical aid is available.

Take care not to rinse contaminated water into the unaffected eye or onto the face.

If eye irritation persists: Get medical advice/attention.

Skin Contact

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts).

Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes.

Store contaminated clothing under water and wash before re-use or discard.

Call a POISON CENTER/doctor if you feel unwell.

Ingestion

Rinse mouth.

Do NOT induce vomiting unless directed to do so by medical personnel.

If vomiting occurs naturally, lie on your side, in the recovery position.

If you feel unwell/If concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Most important known symptoms and effects are described in labeling (See Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5) FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Large Fire : Water spray, fog or alcohol-resistant foam.

Use caution when applying carbon dioxide in confined spaces.

Small Fire : Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam.

Carbon dioxide can displace oxygen.

Unsuitable Extinguishing Media

Do not use straight stream of water.

5.2 Special Hazards Arising from the Substance or Mixture

Fire will produce irritating gases.

Containers may explode when heated.

Containers may explode in fire.

May form an ignitable vapor/air mixture in closed tanks or containers.

Runoff from fire control may cause pollution.

Runoff to sewer may create fire or explosion hazard.

Vapors may form explosive mixtures with air.

Vapors may travel to source of ignition and flashback.

Vapors will spread along ground and collect in low or confined areas (sewers, basements, tanks).

5.3 Advice for firefighters

Fire-Fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out.

Stop spill/release if it can be done safely.

Move undamaged containers from immediate hazard area if it can be done safely.

Cool containers with flooding quantities of water until well after fire is out.

Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

Large Fire: Dike fire-control water for later disposal; do not scatter the material.

Special Protective Actions

Wear positive pressure self-contained breathing apparatus (SCBA).

Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

SECTION 6) ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Emergency Procedure

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

All equipment used when handling the product must be grounded.

Isolate hazard area and keep unauthorized personnel away.

Evacuate and isolate hazard area and keep unauthorized personnel away.

Stay uphill and/or upstream.

A vapor-suppressing foam may be used to reduce vapors.

Ventilate closed spaces before entering.

Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Recommended Equipment

Wear liquid tight chemical protective clothing in combination with positive pressure self-contained breathing apparatus (SCBA).

Personal Precautions

DO NOT breathe vapor or mist.

DO NOT get on skin, eyes or clothing.

6.2 Environmental precautions

Stop spill/release if it can be done safely.

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Dike far ahead of liquid spill for later disposal.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal.

Use clean, non-sparking tools to collect absorbed material.

Ventilate area after clean-up is complete.

SECTION 7) HANDLING AND STORAGE

7.1 Precautions for safe handling

General

Eyewash stations and showers should be available in areas where this material is used and stored.

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

All containers must be properly labelled.

Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits.

The use of local ventilation is recommended to control emissions near the source.

Report ventilation failures immediately.

7.2 Conditions for safe storage, including incompatibilities

Segregate from other hazard classes and store in a cool, dry, well ventilated area, away from sources of ignition and incompatibilities.

Avoid storing in direct sunlight or near other heat sources; eliminate all sources of ignition.

Provide secondary containment for toxic materials.

Bond and ground metal containers/cylinders when transferring.

Protect containers against banging or other physical damage when storing, transferring, or using them.

Keep away from incompatible materials.

See Section 10.5 for Incompatible Materials.

Keep containers securely sealed when not in use.

Store flammable and combustible liquids in areas that are cool, dry and well ventilated to reduce vapour concentrations.

Empty containers retain residue and may be dangerous.

7.3 Specific end use(s)

No data available.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Chemical Name	IOELV STEL (ppm)	IOELV STEL (mg/m3)	IOELV TWA (ppm)	IOELV TWA (mg/m3)	IOELV Directive	IOELV Notations	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)
XYLENE	100	442	50	221	DIR 2000/39/CE	Skin	150	655

Chemical Name	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH Carcinogen	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH Carcinogen
XYLENE	100	435		150		100		A4

Chemical Name	ACGIH Notations
XYLENE	A4; BEI

A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices

8.2 Exposure controls

Eye Protection

Wear indirect-vent, impact and splash resistant goggles when working with liquids.

Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves.

Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity.

Always seek advice from glove suppliers.

Contaminated gloves should be replaced.

Use of an apron and over- boots of chemically impervious materials such as neoprene or nitrile rubber.

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program should be followed.

Check with respiratory protective equipment suppliers.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Environmental Exposure Controls

No data available.

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical and Chemical Properties

Density @ 25°C	0.86003 g/cm3
Specific Gravity	0.86000
Appearance	Liquid
Color	Clear
Odor Threshold	N/A
Odor Description	Aromatic hydrocarbon

Water Content	N/A
pH	N/A
Water Solubility	No Data Available
Flammability	N/A
Flash Point (Closed Cup)	27-32 °C
Viscosity	0.58 to 0.76 mPa at 25 deg cel
Lower Flammability Limit (%v)	N/A
Upper Flammability Limit (%v)	N/A
Vapor Pressure (Calculated @ 20 C/68 F)	8.76239 mmHg (Calculated @ 20 C/68 F)
Vapor Density	N/A
Freezing Point	N/A
Melting Point	N/A
Low Boiling Point	136 °C
High Boiling Point	145 °C
Auto Ignition Temp	min 464 °C
Decomposition Pt	N/A
Evaporation Rate	0.6 (butyl acetate=1)
Coefficient Water/Oil	N/A
Refractive Index	

9.2 Other Information

No data available.

SECTION 10) STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Will not occur under recommended storage conditions.

10.4 Conditions to avoid

Avoid heat, sparks, flame and contact with incompatible materials

10.5 Incompatible materials

Strong oxidizing agents, strong bases, strong acids.

10.6 Hazardous Decomposition Products

Oxides of Carbon.

SECTION 11) TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Likely Routes of Exposure

Skin Contact, Eye Contact, Ingestion, Inhalation

Acute Toxicity

Harmful in contact with skin

Harmful if inhaled

Harmful if swallowed

Aspiration Hazard

Due to lack of data, classification is not possible.

Carcinogenicity

Due to lack of data, classification is not possible.

Germ Cell Mutagenicity

Due to lack of data, classification is not possible.

Reproductive Toxicity

Suspected of damaging fertility or the unborn child

Respiratory/Skin Sensitization

Due to lack of data, classification is not possible.

Serious Eye Damage/Irritation

Causes serious eye irritation

Skin Corrosion/Irritation

Causes skin irritation

Specific Target Organ Toxicity - Single Exposure

Due to lack of data, classification is not possible.

Specific Target Organ Toxicity - Repeated Exposure

May cause damage to organs through prolonged or repeated exposure.

Chronic Exposure

0001330-20-7 XYLENE

High exposure to Xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus.

Xylene in high concentrations has caused embryotoxic effects in laboratory animals.

Potential Health Effects - Miscellaneous

0001330-20-7 XYLENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

0001330-20-7 XYLENE

LC50 (rat): 6350 ppm (4-hour exposure) (unspecified isomers and ethylbenzene) (1) LC50 (rat): 6700 ppm (4-hour exposure) (65% m-xylene, 7.6% o-xylene, 7.8% p-xylene, 19.3% ethylbenzene) (2) ethylbenzene) (1)

LC50 (rat): 6700 ppm (4-hour exposure) (65% m-xylene, 7.6% o-xylene, 7.8% p-xylene, 19.3% ethylbenzene) (2)

LD50 (oral, rat): 5400 mg/kg (52% m-, 19% o-, 24% p-) (1) LD50 (oral, female mouse): 5251 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)

LD50 (oral, male mouse): 5627 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)

LD50 (dermal, rabbit): 12180 mg/kg (m-xylene); greater than 1700 mg/kg (mixed xylenes - undefined composition) (3)

LD50 (oral, female mouse): 5251 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)

LD50 (oral, male mouse): 5627 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)

LD50 (dermal, rabbit): 12180 mg/kg (m-xylene); greater than 1700 mg/kg (mixed xylenes - undefined composition) (3)

SECTION 12) ECOLOGICAL INFORMATION

12.1 Toxicity

Toxic to aquatic life with long lasting effects

12.2 Persistence and degradability

0001330-20-7 XYLENE

50% of applied radiolabelled o-xylene was mineralised in 23 days, and 50% p-xylene was mineralised in 13 days.

12.3 Bio-accumulative potential

No data available.

12.4 Mobility in Soil

No data available.

12.5 Results of the PBT and vPvB assessment

No data available.

12.6 Other Adverse Effects

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste.

Waste management should be in full compliance with national, state and local laws and regulations.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

SECTION 14) Transport Information

	Air Transport (ICAO/IATA)	Inland Waterway Transport (ADN (R))	Land Transportation (ADR/RID)	Marine Transport (IMDG)
14.1 UN number:	UN1307	UN1307	UN1307	UN1307
14.2 UN proper shipping name:	Xylenes (XYLENE)	Xylenes (XYLENE)	Xylenes (XYLENE)	Xylenes (XYLENE)
14.3 Transport hazard class(es):	3	3	3	3
Labels:	3			
14.4 Packing group:	III	III	III	
Hazchem code:			3Y	
Hazard identification number:			30	
14.4 Packing group:				No Data Available
Marine Pollutant:				NA

SECTION 15) REGULATORY INFORMATION

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

The following have been evaluated for this product: Regulation (EC) No 850/2004, regulation (EC) No 1005/2009, and regulation (EC) No 649/2012 and Candidate list of REACH SVHC.

CAS	Chemical Name	% By Weight	Regulation List
0001330-20-7	XYLENE	100.00%	IARC Carcinogen, TSCA, EU_EC_Inventory

SECTION 16) OTHER INFORMATION

Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40(UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; N/A- Not

available; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

Version 1.0:

Revision Date: Nov 11, 2018

First Edition.

Full text of H-Statements referred to under Section 3

H226	Flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H360Df	May damage the unborn child. Suspected of damaging fertility.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H361	Suspected of damaging fertility or the unborn child
H361d	Suspected of damaging the unborn child
H361f	Suspected of damaging fertility
H361fd	Suspected of damaging fertility and the unborn child
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects

DISCLAIMER

To the best of Gadot's knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside Gadot's control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.