XYLENE **9690-LIQUID**

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Identifier: Xylene

SDS Code: 9690-Liquid

Related Part # 9690-945ML, 9690-3.78L

Recommended Use and Restriction on Use

Use: Solvent

Uses Advised Against: Not available

Details of Manufacturer or Importer

Manufacturer
MG Chemicals
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CANADA

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FAX +1-800-340-0773
E-MAIL support@mgchemicals.com
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E-MAIL (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)
USA or CANADA—Call Verisk 3E at ***+1-866-519-4752*** or ***+1-760-476-3962***
(Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service
CANADA—Call CANUTEC collect at ***+1-613-996-6666*** or ****666*** on cellular phones

Section 2: Hazard(s) Identification

Classification of Hazardous Chemical

GHS Categories

Criteria		Category	Signal Word	Pictograms
Aspiration Hazard		1	Danger	Health
Specific Target Organ Toxicity	Repeated Exposure	2	Warning	Health
Carcinogenicity		2	Warning	Health
Flammable Liquid		3	Warning	Flame
Eye Irritation		2A	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation
Acute Toxicity	Dermal [a)]	4	Warning	Exclamation
Acute Toxicity	Inhalation [a)]	4	Warning	Exclamation
Hazardous to the Aquatic Environment	Chronic	3	*None*	*None*

Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity). Severity categories rankings do not allow comparisons between classes.

a) CLP Annex VI mandated classifications

Label Elements

Signal Word	**DANGER**
Pictograms	**Hazard Statements**
	H304: May be fatal if swallowed and enters airways H351: Suspected of causing cancer H373: May cause damage to liver, kidney, and inner ears through prolonged or repeated exposure
	H226: Flammable liquid and vapor

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Pictograms	**Hazard Statements**
	H319: Causes serious eye irritation H315: Causes skin irritation H335: May cause respiratory irritation H312 + H332: Harmful in contact with skin or if inhaled
No Symbol Mandated	H412: Harmful to aquatic life with long lasting effects
Prevention	**Precautionary 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.
P260	Do not breathe mist/vapors/spray/fumes.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P243	Take action to prevent static discharges.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.

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Response	Precautionary Statements
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, water fog, or chemical foam to extinguish.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P303 + P361 + P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water/shower.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
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.
Storage	**Precautionary Statements**
P403 + P235	Store in well-ventilated place. Keep cool.
P405	Store locked up.
Disposal	**Precautionary Statements**
P501	Dispose of contents/container in accordance to local/regional/international regulations.

Hazards Not Otherwise Classified

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Defats skin	Repeated exposure may cause skin dryness or cracking.	None	None

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
1330-20-7	xylene (mixed isomers)	70–80%
100-41-4	ethylbenzene	20–30%

Section 4: First-Aid Measures

Exposure Condition	*GHS Code: Precautionary Statement*
IF SWALLOWED	P301 + P310, P331
Immediate Symptoms	*May cause a burning sensation, abdominal pain, nausea, and headaches (see also inhalation symptoms).*
Response	Immediately call a POISON CENTRE/doctor. Do NOT induce vomiting.
IF ON SKIN (or hair)	P303 + P361 + P352, P332 + P313, P308 + P313, P363
Immediate Symptoms	*redness, irritation, dry skin*
Response	Take off immediately all contaminated clothing. Wash with plenty of water/shower. If skin irritation occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.
IF INHALED	P304 + P340, P312
Immediate Symptoms	*irritation of the respiratory track, cough, dizziness, drowsiness, headaches, (in extreme exposure cases: unconsciousness and death)*
Response	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
IF IN EYES	P305 + P351 + P338, P337 + P313
Immediate Symptoms	*redness, severe irritation, pain*
Response	Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish. Use water spray to cool containers.
Specific Hazards	The vapors are heavier than air and may accumulate in low-lying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion.
Combustion Products	Produces carbon oxides (CO, CO_2).
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

Section 6: Accidental Release Measures

Personal Protection	See personal protection recommendations in Section 8.
Precautions for Response	Remove or keep away all sources of extreme heat or open flames. Do not breathe mist/vapors/spray.
Environmental Precautions	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
Containment	Contain with inert absorbent (such as soil, sand, vermiculite).
Cleaning	Collect the liquid in a sealable, solvent-resistant container with an electrically protected vacuum cleaner, chemical absorbent, or chemical spill pad. **RECOMMENDATION:** Use a grounded stainless steel or carbon steel container.
Disposal	Dispose of spill waste according to Section 13.

Section 7: Handling and Storage

Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood
	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
	Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.
	Do not breathe mist/vapors/spray/fumes. Use only outdoors or in well-ventilated area. In cases of inadequate ventilation wear respiratory protection.
	Avoid release to the environment.
Handling	Wear protective gloves/eye protection/face protection.
	Wash hands thoroughly after handling.
Storage	Keep container tightly closed.
	Store in a well-ventilated area. Keep cool.
	Store locked up.

Section 8: Exposure Controls/Personal Protection

Substances with Occupational Exposure Limit Values

Chemical Name	Country/ Provinces	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
xylene (mixed isomers)	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	100 ppm 100 ppm 100 ppm 100 ppm 100 ppm 100 ppm	150 ppm Not established 150 ppm 150 ppm 150 ppm 150 ppm

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Chemical Name	Country/ Provinces	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
ethylbenzene	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	20 ppm 100 ppm 100 ppm 20 ppm (2B) 100 ppm 100 ppm	Not established Not established 125 ppm Not established 125 ppm 125 ppm

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH[1], OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS[2] database and from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.
(2B) Carcinogen

Engineering Controls

Ventilation Keep airborne concentrations below the occupational exposure limits (OEL).

Personal Protective Equipment

Eye protection Wear appropriate protective eyeglasses or chemical safety goggles.

RECOMMENDATION: Use safety glasses with lateral protection (side shields).

Skin Protection For incidental contacts, use disposable nitrile, neoprene, or other chemically resistant gloves.

Respiratory Protection For over-exposures up to 10 x OEL of mist/vapors/spray, wear respirator such as a half-mask respirator with organic vapor cartridges and particulate filter.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

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General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

Section 9: Physical and Chemical Properties

Physical State	Liquid	**Lower Flammability Limit**	1%
Appearance	Colorless	**Upper Flammability Limit**	6.6%
Odor	Aromatic	**Vapor Pressure @20 °C**	1.06 kPa [7.95 mmHg]
Odor Threshold	≥0.324 ppm	**Vapor Density**	3.66 (Air = 1)
pH	Not available	**Specific Gravity @25 °C**	0.87
Freezing/Melting Point	-47 °C [-53 °F]	**Solubility in Water**	Negligible
Boiling Point	137 °C [279 °F]	**Partition Coefficient**	3.16
Flash Point a)	25 °C [77 °F]	**Auto-ignition Temperature**	500 °C [932 °F]
Evaporation Rate	0.86 (ButAc = 1)	**Decomposition Temperature**	Not available
Flammability (solid, gas)	Not available	**Viscosity @40 °C**	<20.5 mm^2/s

a) Tag closed cup

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Ignition sources, excessive heat, and incompatible substances. Vapors may form explosive mixture with air.
Incompatibilities	strong oxidizing agents, strong acids, strong bases
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

Section 11: Toxicological Information

Summary of Effects and Symptoms by Routes of Exposure

Ingestion	May cause a burning sensation, abdominal pain, nausea, vomiting (See also inhalation symptoms).
Skin	Causes skin redness, skin irritation, and dry skin.
Inhalation	May cause irritation of the respiratory track, cough, dizziness, drowsiness, and headaches *(in extreme overexposure cases: unconsciousness and death).*
Eyes	Causes redness, severe irritation, and pain.
Chronic	Prolonged or repeated exposure may cause skin dryness and cracking, defat skin, and local redness and discomfort. Prolonged and repeated exposure is possibly carcinogenic based on inhalation studies on rats. Prolonged or repeated overexposure may damage the liver and kidneys. Long term exposure to loud noises and product vapors may lead to some hearing loss.

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Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
xylene	4 350 mg/kg Rat	>5 000 mg/kg Rabbit	5 000 ppm 4 h Rat
ethylbenzene	3 500 mg/kg Rat	>5 000 mg/kg Rabbit	35 500 mg/m^3 2h Mouse

Note: Toxicity data from the RTECS[2] and ECHA were consulted. The data from supplier SDS were also consulted.

Other Toxicological Effects

Skin corrosion/irritation — Causes skin irritation.

Serious eye damage/irritation — Causes severe eye irritation.

Sensitization (allergic reactions) — Based on available data, the classification criteria are not met.

Carcinogenicity (risk of cancer) — **Ethylbenzene [100-41-4]**

IARC Group 2B: Possibly carcinogenic to humans

ACGIH A3: Confirmed animal carcinogen with unknown relevance to humans

CA Prop 65: Listed as a carcinogen

NTP: Not listed

Mutagenicity (risk of heritable genetic effects) — Based on available data, the classification criteria are not met.

Reproductive Toxicity (risk to sex functions) — Based on available data, the classification criteria are not met.

Teratogenicity (risk of fetus malformation) — Based on available data, the classification criteria are not met.

STOT-single exposure — Xylene isomers can affect the central nervous system by inhalation causing drowsiness or dizziness. They are a respiratory system irritant.

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STOT-repeated exposure	Prolonged or repeated over-exposure to p-xylene and ethylbenzene and noise can lead to hearing loss (cochlear impairment) according to rat inhalation studies. Prolonged or repeated over-exposure to xylenes can damage the liver, kidneys, and central nervous system. At high levels of exposures, ethylbenzene causes damage of the liver.
Aspiration hazard	The liquid content is classified as Cat 1 aspiration hazards.

Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (http://echa.europa.eu), and other reliable sources.

Xylene isomers mixture is acutely toxic to the aquatic environment of category 2 with a minimal LC50 96 h of 2.5 mg/L for Oncorhynchus mykiss (rainbow trout).

Ethylbenzene is an acute category 2 environmental toxicant with minimal LC50 96 h of 4.2 mg/L for Oncorhynchus mykiss (rainbow trout); EC50 48 h of 2.9 mg/L and 7d NOEL of 0.91 mg/L Daphnia magna (water flea).

Acute Ecotoxicity

See chronic ecotoxicity

Chronic Ecotoxicity

Category 3

Harmful to aquatic life with long lasting effects.

Avoid release to the environment.

Biodegradability

Readily biodegradable. Product is volatile and only slightly soluble in water. In water and soil, it is biodegradable under both aerobic and anaerobic condition. Photoxidation in the atmosphere are typically in the range of 0.5 to 1.5 days.

Other Effects

VOC (EPA, WHIMS, and Europe) = 100% (870 g/L)

*VOC = Regulated Volatile Organic Content

Section 13: Disposal Information

Dispose of contents in accordance with all local, regional, national, and international regulations.

Section 14: Transport Information

Ground

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations); **USA DOT 49 CFR** (Parts 100 to 185) **Regulations.**

Sizes 5 L and under	Sizes greater than 5 L
Limited Quantity 	**UN number**: UN1307 **Shipping Name:** XYLENES **Class:** 3 **Packing Group**: III **Marine Pollutant:** No 

Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 5 L and under	Sizes up to 60 L (passenger), 120 L (cargo)
Limited Quantity Total net quantity per package 10 L 	**UN number**: UN1307 **Shipping Name:** XYLENES **Class:** 3 **Packing Group**: III Marine Pollutant: No 

Sea

Refer to IMDG regulations.

Sizes 5 L and under	Sizes greater than 5 liter
Limited Quantity Packing instructions P001 	**UN number**: UN1307 **Shipping Name:** XYLENES **Class:** 3 **Packing Group**: III Marine Pollutant: No 

Note: **Shipper must be appropriately <u>trained and certified</u> before involvement with the transport of dangerous goods.**

Section 15: Regulatory Information

Canada

Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL/NDSL.

Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

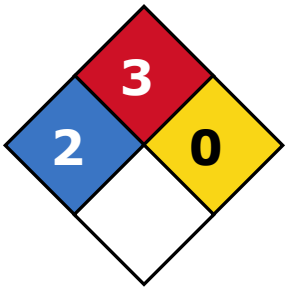
USA

Other Classifications

HMIS® RATING

HEALTH:	* 2
FLAMMABILITY:	3
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:
0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product contains ethylbenzene and xylene that are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45

This product contains ethylbenzene (CAS # 100-41-4; reportable quantity = 1 000 lb) and xylene (CAS# 1330-20-7, reportable quantity = 100 lb), which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

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TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, USA).

This product contains ethylbenzene (CAS # 100-41-4), which is listed as a carcinogen.

Europe

RoHS (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

Section 16: Other Information

SDS Prepared by	MG Chemical's Regulatory Department
Date	12 March 2020
Supersedes	29 September 2016
Reason for Changes:	Update to the emergency phone number information.

References

1) ACGIH *2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices*, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).

2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

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Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
PEL	Permissible Exposure Limit
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	Time Weighted Average
VOC	Volatile Organic Content

Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

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