Xylene

Description

The *Xylene* is a medium evaporation solvent with high solvent strength that is widely used in the paint and chemical industry.

Applications & Usages

In the paint industry, it is used to solubilizes many different types of compounds and resin such as acrylics, enamels, and polyurethanes. This makes it both a good coating thinner, paint remover; and oil and grease remover. Since xylene has a low water solubility, it doesn't absorb water and is unlikely to cause paint blushing even in a high humidity situations. In addition, its drying speed is slow enough to promote excellent leveling, but fast enough to accommodate a reasonable assembly line speed.

In the chemical industry and laboratories, xylene is commonly used solvent for chemical synthesis of various organic compounds.

Features and Benefits

- **Blush resistant**
- **Medium evaporation rate**
- **Good leveling and gloss**
- **Highly miscible with other common organic solvents**
- **Compatible with most substrates used in electronic parts and enclosures**

ATTENTION!
INDUSTRIAL OR LABORATORY USE ONLY
NOT FOR RETAIL SALE

Principal Components

Name
xylene (isomers)
ethylbenzene

Usage Parameters

Properties	*Value*
Shelf Life	5 y

Temperature Ranges

Properties	*Value*
Storage Temperature Limits [a)]	-20 to 40 °C [-4 to 104 °F]

a) Storage below zero is not necessary. Cool, dry, and well ventilated area recommended.

Xylene

Properties

Physical Property	***Method***	***Value***
Color		Clear, slight yellow
Odor		Aromatic
Density @25 °C [77 °F]		0.87 g/mL
Viscosity @25 °C [77 °F]		<20.5 mm^2/s
Flash Point	Tag Closed Cup	25 °C [77 °F]
Freezing Point		-47 °C [-54 °F]
Boiling Point		137 °C [279 °F]
Vapor Pressure @25 °C [77 °F]		1 kPa [7.5 mmHg]
Relative Evaporation Rate		0.86 (ButAc=1)
Volatile Organic Compound (VOC)		100% [870 g/mL]
MIR value		7.37
Solvation Parameters		***Value***
Solubility in water		Negligible (0.00003 g/100 g)
Hansen Solubility Parameters [a]	Total	8.7 [17.8]
$(cal/cm^3)^{½}$; $[MPa]^{½}$	*Non-Polar*	8.6 [17.6]
	Polar	0.5 [1.0]
	Hydrogen Bonding	1.5 [3.1]

a) Hansen parameters calculate using component literature values and volume fraction composition.

Compatibility

Substrate Compatibility: The *Xylene* is compatible with most substrate materials found on printed circuit assemblies.

Solvent Miscibility: The *Xylene* is highly miscible with other common organic solvent. It can be mixed with

- Alcohols
- Aldehydes
- Aromatic and Aliphatic Hydrocarbons
- Ethers
- Glycols
- Glycol Ethers
- Ketones

Xylene

Health, Safety, and Environmental Awareness

Please see the *Xylene* **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

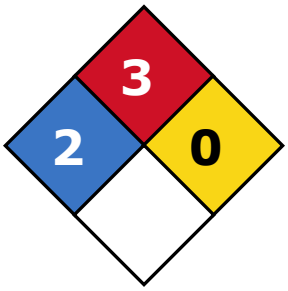
Health and Safety: This liquid is flammable and should be kept away from flames and other ignition sources. It can cause drowsiness and dizziness, and may cause central nervous system damage for prolonged and repeated high exposure. Avoid exposure during pregnancy because it is suspected of being reproductively toxic.

Use only outdoors or in well ventilated area. In cases of inadequate ventilation wear respiratory protection. Avoid breathing in fumes or direct contact with the material.

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)

Environmental Impact: The 9690 has VOC (volatile organic compound) content of 100% [or 870 g/L]. The mixture components are classified as a hazardous air pollutant. It is RoHS compliant.

Paint Thinning Instructions

Make necessary adjustments according to your paint and spray gun equipment usage instructions.
A 1.0 (paint):1.0 (thinner) dilution is a common starting point. If sagging is observed, reduce the thinner ratio.

Packaging and Supporting Products

Cat. No.	*Packaging*	*Net Volume*		*Net Weight*		*Packaging Weight*	
9690-945L	Can	945 mL	31.9 fl oz	823 kg	1.8 lb	TBD	TBD
9690-3.78L	Can	3.78 L	1 gal	3.29 kg	7.25 lb	"	"
Contact MG Chemicals if custom packaging or sizes are required							