

**Section 1 Identification**

**Product identifiers**

Product name: Freeman Xylene Solvent

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

Identified uses: Lacquer Thinner

**Details of the supplier of the safety data sheet:**

Freeman Manufacturing and Supply Company  
1101 Moore Road, Avon, OH 44011  
Phone (440) 934-1902  
FAX (440) 934-7200

HMIS	
H	2
F	3
R	0
PPE	
Sec. 8	

**24 Hour Emergency Phone Number: (800) 424-9300 CHEMTREC**

**Section 2 Hazards Identification**

**GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)**

Flammable Liquid, Category 3  
Skin Corrosion/Irritation, Category 2  
Eye Corrosion/Irritation, Category 2A  
Carcinogen, Category 2  
Reproductive Toxin, Category 1B  
Aspiration Hazard, Category 1

**GHS Label elements**



**Signal word**

**Danger**

**Hazard statements**

Highly flammable liquid and vapor  
May be fatal if swallowed and enters airways  
Causes skin irritation  
Causes serious eye irritation  
Suspected of causing cancer  
May damage fertility or the unborn child

**Precautionary statements**

**Prevention**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed when not in use.  
Ground/bond container and receiving equipment.  
Do not breathe fumes or vapors.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.

#### Section 2 Hazards Identification continued

**Response**

If on skin: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical attention.  
 If inhaled: Remove person to fresh air and call doctor/physician if not feeling well.  
 If in eyes: Rinse continuously with water for at least 15 minutes.  
 Remove contact lenses, if present and easy to do.  
 If eye irritation persists: Get medical advice/attention.  
 If swallowed, immediately call a poison control center or a physician. Do NOT induce vomiting.  
 Take off contaminated clothing and wash before reuse.  
 In case of fire, use alcohol resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>) or dry sand to extinguish.

**Storage**

Store in a well-ventilated place. Keep cool.

**Disposal**

Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

**Hazards not otherwise classified (HNOC) or not covered by GHS**

None known

#### Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Weight Concentration %
Xylenes (o-, m-, p-isomers)	1330-20-7	80-90
Ethylbenzene	100-41-4	10-20
Cumene	98-82-8	0.1-1

#### Section 4 First Aid Measures

**Description of first aid measures**
**If inhaled**

Move person into fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms persist.

**In case of skin contact**

Wash off with soap and plenty of water. If skin irritation continues, consult a doctor.

**In case of eye contact**

Remove contact lenses, if worn. Flush opened eyes thoroughly with water. If irritation persists, get medical assistance.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**Indication of any immediate medical attention and special treatment needed**

No data available.

**Section 5 Fire-Fighting Measures**

**Extinguishing media**

Use alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating and in case of fire.

**Hazardous Combustion Products**

Carbon oxides. Can form explosive vapor-air mixtures. Vapors are heavier than air and may spread along floors. Vapors may travel considerable distance to source of ignition and flash back.

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Section 6 Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapors, mist or gas.  
 Remove all sources of ignition.  
 Ensure adequate ventilation.  
 Remove all non-essential people from the area.  
 For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Absorb with liquid binding material.  
 Sweep up and shovel, using non-sparking tools.  
 Keep in suitable, closed containers for disposal.

**Section 7 Handling and Storage**

**Precautions for safe handling**

Use normal precautions when handling flammable materials. Do not breathe fumes or vapor. Do not allow material to contact skin.  
 Provide appropriate exhaust ventilation.

**Conditions for safe storage, including any incompatibilities**

Store at ambient temperatures in closed containers. Storage temperature 10-50°C. Protect from humidity and water. This material can catch fire if overheated. Do not heat this material above the flash point. Keep away from flame and open electrical coils. Do not store with oxidizing or acidic materials.

**Section 8 Exposure Controls/Personal Protection**

**Components with workplace control parameters**

Ingredient	OSHA		ACGIH	
	PEL	STEL	TWA	STEL
Xylene	100 ppm	None established	100 ppm	150 ppm
Ethylbenzene	100 ppm	None established	20 ppm	125 ppm
Cumene	50 ppm	None established	50 ppm	None established

**Section 8 Exposure Controls/Personal Protection continued**

**Exposure controls**

**Appropriate engineering controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

**Personal protective equipment**

**Eye/face protection**

Use safety glasses equipped with side shields. Wear goggles if splashes are likely to occur.

**Skin protection**

**Hand Protection**

Wear protective gloves. Neoprene and butyl rubber gloves are suggested. Consult glove manufacturer for suitable gloves. Contaminated gloves should be replaced.

**Body Protection**

Prevent skin contact when handling material.

**Respiratory Protection**

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

**Safety Stations**

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**General Hygienic Practices**

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

**Section 9 Physical and Chemical Properties**

<b>Appearance</b>	Clear, transparent liquid
<b>Odor</b>	Sweet, pungent, aromatic hydrocarbon
<b>Odor Threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting Point</b>	No data available
<b>VOC Content</b>	No data available
<b>Boiling range</b>	136°C (276.8°F)
<b>Flash Point</b>	27°C (80.6°F)
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability</b>	No data available
<b>Vapor Pressure</b>	7.3 mmHg
<b>Vapor density</b>	3.7
<b>Relative density (g/cc)</b>	0.86
<b>Weight per Gallon</b>	7.09-7.36 lb./gallon
<b>Water Solubility</b>	Negligible
<b>Coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	432°C (809.6°F)
<b>Viscosity</b>	No data available

**Section 10 Stability and Reactivity**

<b>Reactivity</b>	No data available
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	None.
<b>Conditions to avoid</b>	Heat and open flames.
<b>Incompatible materials</b>	Oxidizing agents, peroxides
<b>Hazardous decomposition</b>	Thermal oxidative decomposition can produce carbon monoxide and carbon dioxide.

**Section 11 Toxicological Information**

**Information on toxicological effects**

<b>Acute Oral toxicity</b>	LD50 3,528 mg/kg (mixture)
<b>Acute Inhalation toxicity</b>	LC50 27 mg/L (mixture)
<b>Acute Dermal toxicity</b>	No data available
<b>Respiratory or skin sensitization</b>	Not a skin sensitizer
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	
<b>IARC</b>	Ethylbenzene and cumene are considered class 2B suspect human carcinogen.
<b>ACGIH</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen
<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity</b>	
- single exposure	No data available
<b>Specific target organ toxicity</b>	
- repeated exposure	Eyes, kidneys, liver, central nervous system, skin, respiratory system

**Section 12 Ecological Information**

<b>Toxicity</b>	No data available
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Results of PBT &amp; vPvB assessment</b>	This mixture contains no PBT or vPvB substances

**Section 13 Disposal Considerations**

**Disposal**

The product should not be allowed to enter drains, water courses, or the soil. Use safety containers for disposal. Contact a licensed waste management company for detailed recommendations. Follow applicable Federal, state, and local regulations.

**Section 14 Transport Information**

**DOT: Shipping Name:** Xylenes  
**Hazard Class:** 3  
**ID No.:** UN 1307  
**Packing Group:** III

**IATA: Shipping Name:** Xylenes  
**Hazard Class:** 3  
**ID No.:** UN 1307  
**Packing Group:** III


**IMDG: Shipping Name:** Xylenes  
**Hazard Class:** 3  
**ID No.:** UN 1307  
**Packing Group:** III

**Section 15 Regulatory Information**

**US Federal Regulations**

RCRA Hazardous Waste Number (40 CFR 261.33): Not listed  
RCRA Hazardous Waste Classification (40 CFR 261): Not classified  
CERCLA Hazardous Substance (40 CFR 302.4): Listed/unlisted specific per RCRA Sec. 3001  
SARA 311/312 Codes: Chronic Health Hazard, Fire Hazard  
SARA Toxic Chemical (40 CFR 372.65): All components listed  
TSCA Inventory Status: All ingredients listed on TSCA inventory requirements

**US State Regulations**

California Proposition 65:  WARNING: This product can expose you to chemicals including Ethylbenzene, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Section 16 Other Information**

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