



Material Safety Data Sheet

1-Buten-3-yne in Xylenes Solution

MSDS No. 000214T

Date of Preparation: 06-03-08

Supersedes: 11-09-06

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: 1-Buten-3-yne in Xylenes Solution

Chemical Formula: None established.

CAS Number: Solution.

Other Designations: Vinyl acetylene in Xylenes Solution.

Manufacturer: Organic Technologies, 1245 South Sixth Street, Coshocton, Ohio 43812 Telephone number (740)622-0755.

Fax number (740)622-3231. 24 Hour Emergency Telephone number (800)424-9300.

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
1-Buten-3-yne	689-97-4	50%
Xylenes	1330-20-7	50%

Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
1-Buten-3-yne	None established	None established	None established	None established	None established	None established	None established
Xylenes (mixed isomers)	100 ppm 435 mg/m ³	None established	100 ppm 434 mg/m ³	150 ppm 651 mg/m ³	100 ppm 435 mg/m ³	150 ppm 655 mg/m ³	none established

Section 3 - Hazards Identification

Emergency Overview

HMIS
H 1
F 4
R 2
PPE[†]
[†]Sec. 8

Potential Health Effects

Primary Entry Routes: Inhalation, skin absorption, ingestion, eyes.

Target Organs: Kidneys. CNS. Liver, eyes, skin, respiratory system.

Acute Effects

Inhalation: Can cause irritation.

Eye: Can cause irritation.

Skin: Can cause irritation.

Ingestion: Can cause irritation.

Carcinogenicity: None of the components in this solution are classified as a human carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: None established.

Chronic Effects: None established.

Section 4 - First Aid Measures

Inhalation: Remove to fresh air. If problems persist, get appropriate medical support.

Eye Contact: Flush with copious amounts of water for at least fifteen minutes. Seek medical attention.

Skin Contact: Flush with copious amounts of water for at least fifteen minutes. If problems persist, seek appropriate medical attention.

Ingestion: Seek appropriate medical attention.

Special Precautions/Procedures: None established.

Section 5 - Fire-Fighting Measures

Flash Point: -50 degrees F.

Flash Point Method: TCC.

Autoignition Temperature: None established.

LEL: None established.

UEL: None established.

Flammability Classification: Flammable gas.

Extinguishing Media: Dry chemical, carbon dioxide.

Unusual Fire or Explosion Hazards: Vapors can travel considerable distances to an ignition source and flash back.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures:

Small Spills: Cover with spill dry. Sweep up and put in an appropriate container.

Large Spills

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Cleanup: Follow all applicable local, state, and federal regulations.

Regulatory Requirements: Follow all applicable local, state, and federal regulations.

Section 7 - Handling and Storage

Handling Precautions: Store in a cool, dry, well-ventilated area. Keep away from heat, sparks, flames, and other sources of ignition. Use appropriate personal protective equipment to avoid contact with eyes, skin, respiratory tract, and clothing.

Storage Requirements: Keep in cool dry area. Vapors can travel considerable distances reaching a source of ignition and flash back. Keep away from open flame.

Regulatory Requirements: Follow all applicable local, state, and federal regulations.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

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

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State: Liquid.

Appearance and Odor: Slight acetylenic and aromatic smell.

Odor Threshold: None established.

Vapor Pressure: 12 degrees C @ 952 mm

Water Solubility: ~10%.

Other Solubilities: None established.

Boiling Point: 5 degrees C

Freezing/Melting Point: None established.

Viscosity: None established.

established.

Section 10 - Stability and Reactivity

Stability: 1-Buten-3-yne will polymerize very readily when in pure state.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: Strong oxidizer agents, strong acids and bases.

Conditions to Avoid: 1-Buten-3-yne will polymerize very readily when in pure state.

Hazardous Decomposition Products: Thermal oxidative decomposition of product this material can produce carbon dioxide, carbon monoxide.

Section 11- Toxicological Information

Toxicity Data:

Eye Effects: None established.

Acute Inhalation Effects:

None established.

Skin Effects: None established.

Acute Oral Effects:

None established.

Chronic Effects: None established

Carcinogenicity: None of the materials in this solution are classified as a human carcinogen.

Mutagenicity: None established.

Teratogenicity: None established.

Section 12 - Ecological Information

Ecotoxicity: None established.

Environmental Fate: None established.

Environmental Degradation: None established.

Soil Absorption/Mobility: None established.

Section 13 - Disposal Considerations

Disposal: Follow all applicable all applicable local, state, and federal regulations.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Liquefied gas,
flammable, n.o.s.

Hazard Class: 2.1

ID No.: UN3161

Packing Group: N/a

Label: Flammable gas.

Section 15 - Regulatory Information

EPA Regulations:

SARA 311/312 Codes:

Acute: Yes.

Chronic: Yes.

Fire: Yes.

Reactive: No.

Sudden Release: Yes.

SARA Section 313 Supplier Notification: This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372):

<u>CAS Number</u>	<u>Chemical Number</u>	<u>De Minimus Limit</u>
1330-20-7	Xylenes (mixed isomers)	1.0

This information must be included in all mSDS's that are copied and distributed for this material.

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Component listed.

Section 16 - Other Information

Prepared By: The Safety Department.

Revision Notes: The information of this form is furnished solely for the purpose of compliance with OSHA's Hazard Communication Standard, 29 CFR 1910.1200 and shall not be used for any other purpose.

Disclaimer: The information contained herein is believed to be accurate, but is not warranted to be. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. Organic Technologies shall not be liable for any loss or damage arising out of the use thereof.