



Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 09/16/2022 Date of Issue: 09/12/2014

Version: 4.0

SECTION 1: Identification

1.1. Product Identifier

Product Form Substance
Product Name XL-128
CAS-No. 115-19-5
Synonyms Substance

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use of the Substance/Mixture For professional use only.

1.3. Details of the Supplier of the Safety Data Sheet

NuSil Technology LLC 1050 Cindy Lane

Carpinteria, California 93013

USA

(805) 684-8780

productstewardship@avantorsciencesgcc.com

www.nusil.com

1.4. Emergency Telephone Number

Emergency 800-424-9300 CHEMTREC (in US)

Number +1 703-527-3887 CHEMTREC (International and Maritime)

SECTION 2: Hazards Identification

2.1. Classification of the Substance or Mixture

GHS-US Classification

Flammable liquids Category 3	H226
Acute toxicity (oral) Category 4	H302
Serious eye damage/eye irritation Category 1	H318
Reproductive toxicity Category 2	H361
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)





GHS05





GHS02

GHS07

GHS08

Signal Word (GHS-US)

Hazard Statements (GHS-US)

Danger

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

H361 - Suspected of damaging fertility or the unborn child

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Precautionary Statements (GHS-US)

P201 - Obtain special instructions before use.

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

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, and lighting equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P261 - Avoid breathing vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

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

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

P280 - Wear protective gloves, protective clothing, eye protection.

P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.

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

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

P310 - Immediately call a doctor, a POISON CENTER.

P330 - Rinse mouth.

P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.

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

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Other Hazards Not Contributing to the Classification

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No additional information available

SECTION 3: Composition/Information On Ingredients

3.1. Substances

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Name	Product Identitier	%	GHS-US Classification

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3-Butyn-2-ol, 2-methyl-	(CAS-No.) 115-19-5	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
		Repr. 2, H361
		STOT SE 3, H336

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First Aid Measures

4.1. **Description of First-aid Measures**

First-aid Measures General Never give anything by mouth to an unconscious person. If you

feel unwell, seek medical advice (show the label where

possible).

First-aid Measures After When symptoms occur: go into open air and ventilate

Inhalation suspected area. Obtain medical attention if breathing difficulty

persists.

First-aid Measures After Skin Immediately remove contaminated clothina. Immediately

drench affected area with water for at least 15 minutes. If

exposed or concerned: Get medical advice/attention.

First-aid Measures After Eye Immediately rinse with water for at least 30 minutes. Remove Contact

contact lenses, if present and easy to do. Continue rinsing. Get

immediate medical advice/attention.

First-aid Measures After Rinse mouth. Do NOT induce vomiting. Obtain medical

Ingestion attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries May cause drowsiness and dizziness. Suspected of damaging

fertility or the unborn child. Harmful if swallowed. Causes serious

eye damage.

Symptoms/Injuries After

Inhalation

Contact

May cause respiratory irritation. High concentrations may cause

central nervous system depression such as dizziness, vomiting,

numbness, drowsiness, headache, and similar narcotic

symptoms.

Symptoms/Injuries After Skin

Contact

May cause skin irritation. Prolonged exposure may cause skin

irritation.

Symptoms/Injuries After Eye

Contact

Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After

Ingestion

This material is harmful orally and can cause adverse health

effects or death in significant amounts.

Suspected of damaging fertility or the unborn child. Chronic Symptoms

Indication of Any Immediate Medical Attention and Special Treatment Needed 4.3. If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

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SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Suitable Extinguishing Media : Dry chemical powder, alcohol-resistant foam, carbon dioxide

(CO₂). Water may be ineffective but water should be used to

keep fire-exposed container cool.

Unsuitable Extinguishing Media : Do not use a heavy water stream. A heavy water stream may

spread burning liquid. Application of water stream to hot product may cause frothing and increase fire intensity.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard Flammable liquid and vapor.

Explosion Hazard May form flammable or explosive vapor-air mixture.

Reactivity Reacts violently with strong oxidizers. Increased risk of fire or

explosion.

5.3. Advice for Firefighters

Precautionary Measures Fire Exercise caution when fighting any chemical fire.

of major fire and large quantities: Evacuate area. Fight fire

remotely due to the risk of explosion.

Protection During Firefighting Do not enter fire area without proper protective equipment,

including respiratory protection.

Hazardous Combustion

Products

Carbon oxides (CO, CO₂).

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment And Emergency Procedures

General Measures Do not get in eyes, on skin, or on clothing. Do not breathe

vapor, mist or spray. Keep away from heat, hot surfaces, sparks,

open flames, and other ignition sources. No smoking. Use

special care to avoid static electric charges.

6.1.1. For Non-Emergency Personnel

Protective Equipment Use appropriate personal protective equipment (PPE).

Emergency Procedures Evacuate unnecessary personnel. Stop leak if safe to do so.

6.1.2. For emergency responders

Protective Equipment Equip cleanup crew with proper protection.

Emergency Procedures Upon arrival at the scene, a first responder is expected to

recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Eliminate

ignition sources first, then ventilate the area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment Contain any spills with dikes or absorbents to prevent migration

and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all

directions.

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Methods for Cleaning Up

Use only non-sparking tools. Clean up spills immediately and

dispose of waste safely. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: Handling And Storage

7.1. Precautions for Safe Handling

Additional Hazards When

Processed

Handle empty containers with care because residual vapors

are flammable.

Precautions for Safe Handling Do not

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not get in eyes, on skin, or on clothing. Do NOT breathe mist, spray, vapor. Take precautionary measures against static discharge. Use only non-sparking tools. Handle empty containers with care because they may still present a hazard. Wash hands and other

exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work.

Hygiene Measures Handle in accordance with good industrial hygiene and safety

procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures Comply with applicable regulations. Take action to prevent

static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and

lighting equipment.

Storage Conditions Store in a dry, cool place. Keep/Store away from direct sunlight,

extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in a well-ventilated place. Keep container tightly closed. Keep in

fireproof place.

Incompatible Materials

Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

For professional use only.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), or OSHA (PEL).

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Exposure Controls 8.2.

Appropriate Engineering Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas Controls

> detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Emergency eye wash fountains and safety showers should be

available in the immediate vicinity of any potential exposure. Gloves. Protective clothing. Protective goggles. Insufficient

ventilation: wear respiratory protection.









Materials For Protective

Personal Protective Equipment

Clothing

Hand Protection Eve And Face Protection Skin And Body Protection

Respiratory Protection

Chemically resistant materials and fabrics. Wear fire/flame

resistant/retardant clothing. Wear protective gloves.

Chemical safety gogales.

Wear suitable protective clothing.

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved

respiratory protection.

Other Information When using, do not eat, drink or smoke.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties 9.1.

Physical State Liquid **Appearance** Colorless Odor Alcohol

Odor Threshold No data available Hq No data available **Evaporation Rate** No data available

Melting Point 3 °C (37.4 °F) Freezing Point 3 °C (37.4 °F)

104.26 °C (219.67 °F) **Boiling Point**

25 °C (77 °F) Flash Point **Auto-ignition Temperature** 380 °C (716 °F) **Decomposition Temperature** No data available

Flammable liquid and vapor Flammability

Vapor Pressure 20 hPa at 20 °C (68 °F) Relative Vapor Density at 20 °C No data available Relative Density No data available

Specific Gravity < 1

Solubility Water: 1000 a/l

Partition Coefficient n-Octanol/Water 0.318

Viscosity, Kinematic 4.22 mm²/s at 20 °C (68 °F) Viscosity, Dynamic 3.64 mPa·s at 20 °C (68 °F)

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Oxidizing Properties None

Upper/lower flammability or explosive No data available

limits

9.2. Other Information

VOC Content 100%

SECTION 10: Stability and Reactivity

10.1. Reactivity

Reacts violently with strong oxidizers. Increased risk of fire or explosion.

10.2. Chemical Stability

Flammable liquid and vapor. May form flammable or explosive vapor-air mixture.

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products

Acetylene; acetone.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity (Oral) Harmful if swallowed.

Acute Toxicity (Dermal) Not classified Acute Toxicity (Inhalation) Not classified

3-Butyn-2-ol, 2-methyl- (115-19-5)	
LD50 Oral Rat	1950 mg/kg
LD50 Dermal Rat	> 2000 mg/kg (no deaths)
LC50 Inhalation Rat	> 21300 mg/m³ (Exposure time: 4 h)
LC50 Inhalation Rat	> 21.3 mg/l/4h

Skin Corrosion/Irritation Not classified

Serious Eye Damage/Irritation Causes serious eye damage.

Respiratory or Skin Sensitization

Germ Cell Mutagenicity

Carcinogenicity

Not classified

Not classified

Not classified

Reproductive Toxicity Suspected of damaging fertility or the unborn child.

Not classified

Specific Target Organ Toxicity May cause drowsiness or dizziness.

(Single Exposure)

Inhalation

Specific Target Organ Toxicity

(Repeated Exposure)

Aspiration Hazard Not classified

Symptoms/Injuries After May cause respiratory irritation. High concentrations may

cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar

narcotic symptoms.

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Symptoms/Injuries After Skin May cause skin irritation. Prolonged exposure may cause skin

Causes permanent damage to the cornea, iris, or conjunctiva.

Contact irritation.

Symptoms/Injuries After Eye

Contact

Symptoms/Injuries After This material is harmful orally and can cause adverse health

Ingestion effects or death in significant amounts.

Chronic Symptoms Suspected of damaging fertility or the unborn child.

SECTION 12: Ecological Information

12.1. Toxicity

3-Butyn-2-ol, 2-methyl- (115-19-5)	
LC50 Fish 1	3120 (3120 – 3480) mg/l (Exposure time: 96 h - Species:
	Pimephales promelas [flow-through])
EC50 Crustacea	500 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms 1	500 mg/l (Exposure time: 72 h - Species: Desmodesmus
	subspicatus)
LC50 Fish 2	(2200 – 4600 mg/l (Exposure time: 96 h - Species: Leuciscus idus
	[static])
EC50 Other Aquatic Organisms 2	500 mg/l (Exposure time: 96 h - Species: Desmodesmus
	subspicatus)

12.2. Persistence and Degradability

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XL-128 (115-19-5)	
Persistence and Degradability	Poorly biodegradable.

12.3. Bioaccumulative Potential

XL-128 (115-19-5)	
Bioaccumulative Potential	Not expected to bioaccumulate.
3-Butyn-2-ol, 2-methyl- (115-19-5)	
Partition coefficient n-	0.318 (at 25 °C)
octanol/water (Log Pow)	

12.4. Mobility In Soil

No additional information available

12.5. Other Adverse Effects

Other Information Avoid release to the environment.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Waste Disposal Dispose of contents/container in accordance with local, Recommendations regional, national, territorial, provincial, and international

regulations.

Additional Information Handle empty containers with care because residual vapors

are flammable.

Ecology - Waste Materials Avoid release to the environment.

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SECTION 14: Transport Information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Proper Shipping Name ALCOHOLS, N.O.S. (2-methyl-3-butyn-2-ol)

Hazard Class 3

Identification Number UN1987

Label Codes 3
Packing Group III
ERG Number 129



Proper Shipping Name ALCOHOLS, N.O.S. (2-methyl-3-butyn-2-ol)

Hazard Class 3

Identification Number UN1987

Packing Group III
Label Codes 3
EmS-No. (Fire) F-E
EmS-No. (Spillage) S-D



14.3. In Accordance with IATA

Proper Shipping Name ALCOHOLS, N.O.S. (2-methyl-3-butyn-2-ol)

Packing Group III

Identification Number UN1987

Hazard Class 3 Label Codes 3 ERG Code (IATA) 3L



SECTION 15: Regulatory Information

15.1. US Federal Regulations

All components in this mixture are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, have been exempted, or are not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

XL-128 (115-19-5)	
SARA Section 311 /	Health hazard - Acute toxicity (any route of exposure)
312 Hazard Classes	Health hazard - Reproductive toxicity
	Health hazard - Serious eye damage or eye irritation
	Health hazard - Specific target organ toxicity (single or repeated
	exposure)
	Physical hazard - Flammable (gases, aerosols, liquids, or solids)

15.2. US State Regulations

3-Butyn-2-ol, 2-methyl- (115-19-5	

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RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

RTK - U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Special Health Hazards Substances List

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

SECTION 16: Other Information, Including Date of Preparation or Last Revision

Date of Preparation or Latest

09/16/2022

Revision

Other Information

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29

CFR 1910.1200.

GHS Full Text Phrases:

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H318	Causes serious eye damage
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child

NFPA Health Hazard 3 - Materials that, under emergency

conditions, can cause serious or

permanent injury.

NFPA Fire Hazard 3 - Liquids and solids (including finely

divided suspended solids) that can be

ignited under almost all ambient

temperature conditions.

NFPA Reactivity Hazard 0 - Material that in themselves are

normally stable, even under fire

conditions.

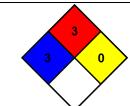
HMIS III Rating

Health 3 Serious Hazard

* Chronic - Chronic (long-term) health effects may result from

repeated overexposure

Flammability 3 Serious Hazard
Physical 0 Minimal Hazard



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