Printing date 07/09/2024 Reviewed on 07/08/2024

### 1 Identification

· Product identifier

· Trade name: Ethoxyacetylene solution

· Article number: 134770 · CAS Number: 927-80-0 · EINECS Number: 213-164-5

· Application of the substance / the mixture Laboratory chemicals for research and development

Details of the supplier of the safety data sheet

· Manufacturer/Supplier: BeanTown Chemical 9 Sagamore Park Road Hudson, NH 03051 USA

Phone: (603) 402-2234 Fax: (603) 402-9713

Email: technical@beantownchem.com

www.beantownchem.com

· Information department: Technical Support Department

· Emergency telephone number:

During normal operating hours, please call (603) 402-2234 After hours, please call Chemtrec at (800) 424-9300

## 2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

(Contd. of page 1)

## Safety Data Sheet acc. to OSHA HCS

Reviewed on 07/08/2024 Printing date 07/09/2024

#### Trade name: Ethoxyacetylene solution

#### · Hazard pictograms







#### · Signal word Danger

#### · Hazard-determining components of labeling:

n-hexane

*3-methylpentane* 

2-methylpentane

#### · Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

#### · Precautionary statements

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

Do NOT induce vomiting.

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

Take off contaminated clothing and wash it before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:			
	ethyl ethynyl ether	50.0%	
110-54-3	n-hexane	32.5%	
	3-methylpentane	12.5%	
	methylcyclopentane	2.5%	
107-83-5	2-methylpentane	2.5%	

#### 4 First-aid measures

- · Description of first aid measures
- · General information:

*Immediately remove any clothing soiled by the product.* 

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

(Contd. on page 3)

Printing date 07/09/2024 Reviewed on 07/08/2024

Trade name: Ethoxyacetylene solution

(Contd. of page 2)

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:		
110-54-3	n-hexane	260 ppm
96-14-0	3-methylpentane	1,000 ppm
96-37-7	methylcyclopentane	14 ppm
107-83-5	2-methylpentane	1,000 ppm
· PAC-2:		
110-54-3	n-hexane	2900* ppm
96-14-0	3-methylpentane	11000** ppm
96-37-7	methylcyclopentane	160 ppm
107-83-5	2-methylpentane	11000** ppm
· PAC-3:		
110-54-3	n-hexane	8600** ppm
96-14-0	3-methylpentane	66000*** ppm
96-37-7	methylcyclopentane	940 ppm
		(Contd. on page 4)

- US

Printing date 07/09/2024 Reviewed on 07/08/2024

Trade name: Ethoxyacetylene solution

 (Contd. of page 3)

 107-83-5
 2-methylpentane

 66000\*\*\* ppm

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

### · Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

Long-term value: 1800 mg/m³, 500 ppm
20.00 to 1000 1000 PF
Long-term value: 180 mg/m³, 50 ppm
Long-term value: 176 mg/m³, 50 ppm Skin; BEI
4-0 3-methylpentane
Long-term value: 350 mg/m³, 100 ppm Ceiling limit value: 1800* mg/m³, 510* ppm *15-min
Short-term value: 3500 mg/m³, 1000 ppm Long-term value: 1760 mg/m³, 500 ppm
7-7 methylcyclopentane
Long-term value: 350 mg/m³, 100 ppm Ceiling limit value: 1800* mg/m³, 510* ppm *15-min
<b>1</b>

(Contd. on page 5)

Printing date 07/09/2024 Reviewed on 07/08/2024

Trade name: Ethoxyacetylene solution

(Contd. of page 4)

Short-term value: 3500 mg/m³ 1000 nnm

TLV Short-term value: 3500 mg/m³, 1000 ppm Long-term value: 1760 mg/m³, 500 ppm

#### 107-83-5 2-methylpentane

REL Long-term value: 350 mg/m³, 100 ppm Ceiling limit value: 1800\* mg/m³, 510\* ppm

\*15-min

TLV Short-term value: 3500 mg/m³, 1000 ppm Long-term value: 1760 mg/m³, 500 ppm

### · Ingredients with biological limit values:

#### 110-54-3 n-hexane

BEI 0.4 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: 2.5-Hexanedione without hydrolysis

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Tightly sealed goggles

### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid

*Color:* According to product specification

· Odor: Characteristic
· Odor threshold: Not determined.

(Contd. on page 6)

Printing date 07/09/2024 Reviewed on 07/08/2024

Trade name: Ethoxyacetylene solution

	(Contd. of page
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined Undetermined
Flash point:	-28 °C (-18.4 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	240 °C (464 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vap mixtures are possible.
Explosion limits: Lower: Upper:	1.2 Vol % 7.4 Vol %
Vapor pressure at 20 °C (68 °F):	160 hPa (120 mm Hg)
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	0.718 g/cm³ (5.99171 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water	er): Not determined.
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content:	
Organic solvents: VOC content:	32.5 % 35.00 % 251.3 g/l / 2.10 lb/gal
Solids content:	0.0 %
Other information	No further relevant information available.

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

Printing date 07/09/2024 Reviewed on 07/08/2024

Trade name: Ethoxyacetylene solution

(Contd. of page 6)

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

927-80-0 ethyl ethynyl ether

*Oral* LD50 2,400 mg/kg (mouse)

- Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories

#### · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 8)

Reviewed on 07/08/2024 Printing date 07/09/2024

Trade name: Ethoxyacetylene solution

(Contd. of page 7)

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, IMDG, IATA	UN1993	
UN proper shipping name		
DOT	Flammable liquids, n.o.s.	
<i>IMDG</i>	FLAMMABLE LIQUID, N.O.S., MARINE POLLUTANT	
IATA	FLAMMABLE LIQUID, N.O.S.	
Transport hazard class(es)		
DOT, IMDG, IATA		
Class	3 Flammable liquids	
Label	3	
Packing group		
DOT, IMDG, IATA	II	
Environmental hazards:		
Marine pollutant:	Yes	
•	Symbol (fish and tree)	
Special precautions for user	Warning: Flammable liquids	
EMS Number:	F-E,S-E	
Stowage Category	B	
Transport in bulk according to Anne	ex II of	
MARPOL73/78 and the IBC Code	Not applicable.	
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, ENVIRONMENTALLY HAZARDOUS	

## 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara	Televani injormanon avanaete.	
· Section 3	55 (extremely hazardous substances):	
None of t	he ingredients is listed.	
· Section 3	13 (Specific toxic chemical listings):	
110-54-3	n-hexane	
· TSCA (T	oxic Substances Control Act):	
110-54-3	n-hexane	ACTIVE
96-14-0	3-methylpentane	ACTIVE
96-37-7	methylcyclopentane	ACTIVE
107-83-5	2-methylpentane	ACTIVE
· Hazardoi	us Air Pollutants	·

#### Hazardous Air Pollutants

110-54-3 n-hexane

(Contd. on page 9)

Printing date 07/09/2024 Reviewed on 07/08/2024

Trade name: Ethoxyacetylene solution

(Contd. of page 8)

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

110-54-3 n-hexane

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

110-54-3 n-hexane

II

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· RTECS

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· NFPA ratings (scale 0-4)

Health = 2

Fire = 3

Reactivity = 0

· HMIS ratings (scale 0-4)

Health = 2

Fire = 3

Reactivity = 0

- · Department issuing SDS: Technical Support Department
- · Contact: Technical Support Department
- Date of preparation / last revision 07/09/2024 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

(Contd. on page 10)

Printing date 07/09/2024 Reviewed on 07/08/2024

### Trade name: Ethoxyacetylene solution

(Contd. of page 9)

TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1