

# Safety Data Sheet per OSHA HazCom 2012

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### 1 Identification

Product identifier

Product name: Ethoxyacetylene, ca 50% w/w in hexanes

Stock number: L02922

CAS Number:

927-80-0

Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development

Details of the supplier of the safety data sheet Details of the supplier of the safety da Manufacturer/Supplier:
Alfa Aesar
Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757
Email: technologies access

Email: tech@alfa.com www.alfa.com

Information Department: Health, Safety and Environmental Department

Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

# 2 Hazard(s) identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)



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 the peripheral nervous system, the lung, the kidneys, the liver, the reproductive system and the brain through prolonged or repeated exposure. Route of exposure: Inhalative.

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



Skin Irrit. 2 H315 Causes skin irritation.

Hazards not otherwise classified No information known.

GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms







GHS02 GHS07 GHS08

Signal word Danger

Signal word Danger
Hazard statements
H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to the peripheral nervous system, the lung, the kidneys, the liver, the reproductive system and the brain through prolonged or repeated exposure. Route of exposure: Inhalative.
H304 May be fatal if swallowed and enters airways.
Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280 Wear protective gloves / protective clothing.
Use personal protective equipment as required.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280 Wear protective gloves / protective clothing.
P281 Use personal protective equipment as required.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P315 Get immediate medical advice/attention.
Store in a well-ventilated place. Keep cool.
WHMIS classification

WHMIS classification

B2 - Flammable liquid D2A - Very toxic material causing other toxic effects



Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)



Health (acute effects) = 2
Flammability = 3 Physical Hazard = 1

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

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### Product name: Ethoxyacetylene, ca 50% w/w in hexanes

(Contd. of page 1)

### 3 Composition/information on ingredients

Chemical characterization: Substances CAS# Description: 927-80-0 Ethoxyacetylene, ca 50% w/w in hexanes

#### 4 First-aid measures

# Description of first aid measures

After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek immediate medical advice.

After skin contact
Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek medical treatment. 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.
Special hazards arising from the substance or mixture
If this product is involved in a fire, the following can be released:

Talls product is invoved in a line, the incarbon monoxide and carbon dioxide
Advice for firefighters
Protective equipment:
Wear self-contained respirator.
Wear fully protective impervious suit.

### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

Methods and material for containment and cleaning up:
Keep away from ignition sources.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Prevention of secondary hazards: Keep away from ignition sources.

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.

# 7 Handling and storage

Handling Precautions for safe handling

Keep container tightly sealed. Ensure good ventilation at the workplace.

Information about protection against explosions and fires: Protect against electrostatic charges.

Furnes can combine with air to form an explosive mixture. Keep ignition sources away.

Conditions for safe storage, including any incompatibilities Storage

Requirements to be met by storerooms and receptacles: Refrigerate Information about storage in one common storage facility: Store away from oxidizing agents. Protect from heat.

Further information about storage conditions: Keep container tightly sealed.

Refrigerate
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.
Components with limit values that require monitoring at the workplace:

n-Hexane

ACGIH TLV
Belgium TWA
France TWA
Germany TWA
Netherlands TWA
Switzerland TWA
United Ringdom TV

50 (skin) 50 50 50 100 50, 100-STEL WA 100, 125-STEL 40 50 0 150-STEI

United Kingdom TWA Russia TWA 40 Denmark 50

50, 150-STEL 100 mg/m3, 200 mg/m3-STEL 400 mg/m3 25, 50-STEL 500 Finland Hungary TWA Poland TWA

Sweden USA PEL

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(Contd. of page 2)

### Product name: Ethoxyacetylene, ca 50% w/w in hexanes

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

Hexane isomers, other than n-hexane ppm ACGIH TLV 500; 1000-STEL

ACGIH TLV ppm

ACGIH TLV 500; 1000-STEL
Alberta, Canada TWA 500; 625-STEL
Australia TWA 500; 1000-STEL
Germany MAK 200; 400-STEL
Ireland TWA 500; 1000-STEL
Netherlands TWA 200
Quebec, Canada
Sweden TWA 200; 300-STEL
USA TWA 100; 510-Ceiling
Additional information: No data

Additional information: No data

Exposure controls ersonal protective equipment

General protective and hygienic measures
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.

Not determined.

Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use suitable respirator when high concentrations are present.
Protection of hands:
Impervious gloves
Check protective gloves prior to each use for their proper condition.
The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.
Penetration time of glove material (in minutes) Not determined
Eye protection: Safety glasses
Body protection: Protective work clothing.

Product is not explosive. However, formation of explosive air/vapor mixtures is possible.

# 9 Physical and chemical properties

Information on basic physical and chemical properties General Information

Appearance: Form: Color: Liquid Dark yellow Recognizable Odor: Odor threshold: Not determined

pH-value:

Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined

-28 °C (-18 °F) Not determined Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined Not determined Auto igniting: Not determined

Danger of explosion: Explosion limits:

Lower: Upper: Not determined Not determined

Not determined 0.718 g/cm³ (5.992 lbs/gal) Not determined.

Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Not determined Evaporation rate Solubility in / Miscibility with Not determined.

Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined.

Viscosity: dynamic: Not determined. Not determined.

kinematic: Other information No further relevant information available.

# 10 Stability and reactivity

Reactivity No information known.
Chemical stability Stable under recommended storage conditions.
Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions No dangerous reactions known
Conditions to avoid No further relevant information available.

Incompatible materials:
Oxidizing agents
Heavy metal powders
Heat

Hazardous decomposition products: Carbon monoxide and carbon dioxide

# 11 Toxicological information

Information on toxicological effects Acute toxicity: No effects known.

LD/LC50 values that are relevant for classification:

Oral LD50 2400 mg/kg (mouse)

Skin irritation or corrosion: Causes skin irritation.

Eye irritation or corrosion: May cause irritation

(Contd. on page 4)

### Product name: Ethoxyacetylene, ca 50% w/w in hexanes

(Contd. of page 3)

Sensitization: No sensitizing effects known.

Germ cell mutagenicity: No effects known.

Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

Specific target organ system toxicity - repeated exposure:
May cause damage to the peripheral nervous system, the lung, the kidneys, the liver, the reproductive system and the brain through prolonged or repeated exposure. Route of exposure: Inhalative.

Specific target organ system toxicity - single exposure: No effects known.

Aspiration hazard: May be fatal if swallowed and enters airways.

Subacute to chronic toxicity: No effects known.

Subacute to chronic toxicity: Hexanes may cause skin irritation, CNS effects, lung irritation, headache, dizziness, drowsiness.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

# 12 Ecological information

Toxicity
Aquatic toxicity: No further relevant information available.
Persistence and degradability No further relevant information available.
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.

Remark: Toxic for aquatic organisms
Additional ecological information:

Additional ecological missimal forms of the following product to reach ground water, water course or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

This for equation organisms

Do not allow material to be released to the environment without proper governmental permits. Toxic for aquatic organisms
Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic to aquatic life.
May cause long lasting harmful effects to aquatic life.
Avoid transfer into the environment.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects No further relevant information available.

Other adverse effects No further relevant information available.

# 13 Disposal considerations

Waste treatment methods

Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

14 T	raner	ort ii	nform	ation

UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name DOT IMDG	Flammable liquids, n.o.s. (Ethoxyacetylene solution in hexanes) FLAMMABLE LIQUID, N.O.S. (Ethoxyacetylene solution in hexanes), MARINE
IATA	POLLUTANT FLAMMABLE LIQUID. N.O.S. (Ethoxyacetylene solution in hexanes)

# Transport hazard class(es)

















Packing group DOT, IMDG, IATA Environmental hazards:

Marine pollutant (IMDG): Special precautions for user EMS Number:

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information:

DOT Marine Pollutant (DOT):

3 Flammable liquids.

3 Flammable liquids.

(F1) Flammable liquids

3 Flammable liquids.

Environmentally hazardous substance, liquid; Marine Pollutant Symbol (fish and tree)

Warning: Flammable liquids F-E,S-E

No

(Contd. on page 5)

# Product name: Ethoxyacetylene, ca 50% w/w in hexanes

	(Contd. of page 4)	
Remarks:	Special marking with the symbol (fish and tree).	
UN "Model Regulation":	UN1993, Flammable liquids, n.o.s., special provision 640D (Ethoxyacetylene solution in hexanes), 3, II	

### 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms







GHS02 GHS07 GHS08

Signal word Danger

Hazard statements H225 Highly flammable liquid and vapor. H315 Causes skin irritation.

H361 Suspected of damaging fertility or the unborn child.
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Precautionary statements

Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280 Wear protective gloves / protective clothing.
P281 Use personal protective equipment as required.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
Get immediate medical advice/attention.
Store in a well-ventilated place. Keep cool.

National regulations

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

National regulations
This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

SARA Section 313 (specific toxic chemical listings) Substance is not listed.

California Proposition 65
Prop 65 - Chemicals known to cause cancer Substance is not listed.

Prop 65 - Developmental toxicity Substance is not listed.

Prop 65 - Developmental toxicity, female Substance is not listed.

Prop 65 - Developmental toxicity, male Substance is not listed.

Information about limitation of use:

For use only by technically qualified individuals.

This product is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

Other regulations, limitations and prohibitive regulations

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/23/2015 / Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO: International Civil Aviation Organization
ICAO: The chinical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européen sur le transport 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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
VPUS: very Persistent and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
NDP: National Toxicology Program (USA)
IARC: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)