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	Version 1
1 Identification	
Product identifier	
Product name: (Trimethylsilyl)acetylene	
Stock number: A12856, L08286 CAS Number: 1066-54-2	
EC number: 213-919-9	
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 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	
Fax: 800-322-4757	
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	
GRS02 Flame	
Flam. Liq. 2 H225 Highly flammable liquid and vapor. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS02	
Signal word Danger Hazard statements H225 Highly flammable liquid and vapor. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
P280 Wear protective gloves / eye protection / face protection. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment.	
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification B2 - Flammable liquid	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I FIRE I Flammability = 3 REACTIVITY Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	
vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description:	
1066-54-2 (Trimethylsilyl)acetylene	
Concentration: ≤100% ′ Identification number(s): EC number: 213-919-9	
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. (Con	td. on page 2)
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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 Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Silicon oxide 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 product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources 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. Protective Action Criteria for Chemicals PAC-1: Substance is not listed PAC-1: Substance is not listed. PAC-2: Substance is not listed. PAC-3: Substance is not listed. 7 Handling and storage Handling 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. Kaop infine sources away 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: Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Refriaerate 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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal 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. Maintain an ergonomically appropriate working environment. Breathing equipment: Breathing equipment: Use suitable respirator when high concentrations are present. Use suitable respiratory protective device in case of insufficient ventilation. Recommended filter device for short term use: Use a respirator with multi-purpose combination (US) or type AXBEK (EN 14387) as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU). Protection of hands: Protection of manus. 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. **Material of gloves** Butyl rubber, BR **Penetration time of glove material (in minutes)** 480

Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU)

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Body protection: Protective work clothing.

9 Physical and chemical properties			
Information on basic physical and ch General Information Appearance: Form:			
Odor: Odor threshold:	Not determined Not determined.		
pH-value:	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 52-53 °C (126-127 °F) Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	<-34 °C (<-29 °F) Not determined. 310 °C (590 °F) Not determined Not determined.		
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	Product is not explosive. However, formation of explosive air/vapor mixtures is possible. Not determined 299 hPa (224 mm Hg) 0.71 g/cm³ (5.925 lbs/gal) Not determined. Not determined. Not determined.		
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity:	Not miscible or difficult to mix		
dynamic: kinematic: Other information	Not determined. Not determined. No further relevant information available.		
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions Re Conditions to avoid No further relevant Incompatible materials: Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide Silicon oxide	to be avoided : Decomposition will not occur if used and stored according to specifications. eacts with strong oxidizing agents it information available.		
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for 0	classification: No data		

LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation 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: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. 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. Additional ecological information: General notes: 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. Toxicity

13 Disposal considerations

Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal.

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Recommendation: Disposal must be made according to official regulations.	(Contd. of page
4 Transport information	
UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name DOT	
ADR IMDG, IATA	Flammable liquids, n.o.s. ((Trimethylsilyl)acetylene) 1993 Flammable liquids, n.o.s., special provision 640D ((Trimethylsilyl)acetylene) FLAMMABLE LIQUID, N.O.S. ((Trimethylsilyl)acetylene)
Transport hazard class(es) DOT	
Class Label	3 Flammable liquids 3
ADR	
Class Label IMDG, IATA	3 (F1) Flammable liquids 3
Class Label	3 Flammable liquids 3
Packing group DOT, ADR, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user EMS Number: Stowage Category	Warning: Flammable liquids F-E, <u>S-E</u> B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	de Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
Marine Pollutant (DOT):	On cargo aircraft only: 60 L No
IMDG Limited quantities (LQ)	1L
Excepted quantities (ÉQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	Maximum net quantity per outer packaging: 500 ml UN 1993 FLAMMABLE LIQUIDS, N.O.S., SPECIAL PROVISION 640D ((TRIMETHYLSILYL)ACETYLENE), 3, II
5 Regulatory information Safety, health and environmental regulations/legislation specific for the s GHS label elements The product is classified and labeled in accordance with	substance or mixture
Hazard pictograms GHS02	
Hazard pictograms	smoking. othing. Rinse skin with water/shower. onal/national/international regulations. Agency Toxic Substances Control Act Chemical substance Inventory. tances List (NDSL).
Hazard pictograms With the second s	smoking. t. othing. Rinse skin with water/shower. onal/national/international regulations. Agency Toxic Substances Control Act Chemical substance Inventory. tances List (NDSL).

USA

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(Contd. of page 4) 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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

conformance with this 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/Revision: Print date, revision date and version number are in the header of each page.
Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
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 dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
VPVB: very Persistent and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
HTP: National Toxicology Program (USA)
Fam. Liq. 2: Flammable liquids – Category 2