



Page 1/5 Printing date 10/03/2018 Revision date 10/02/2018 Version 2

	version 2
1 Identification Product identifier Product name: Bis(trimethylsilyl)acetylene	
Stock number: A11960, L04482 CAS Number:	
14630-40-1 EC number: 238-671-9	
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	
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) 928-0)789.
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. 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	
Sinds 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. P261 Avoid breathing dust/fume/gas/mist/vapors/spray WHMIS classification B2 - Flammable liquid	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 3 REACTIVITY I 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: 14630-40-1 Bis(trimethylsilyl)acetylene Concentration: ≤100% Identification number(s): EC number: 238-671-9	
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.	
After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.	
	(Contd. on page 2) USA

(Contd. of page 1)

Product name: Bis(trimethylsilyl)acetylene

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media 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. Environmental precautions: Do not allow product to reach sewage system or any water cour 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. Reference to other sections See Section 7 for information on safe handling See Section 7 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 Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Keep infition sources away Keep ignition sources away. 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: Store away from oxidizing agents. Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

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

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 solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with multi-purpose combination (US) or type ABEK (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). CEN (EU)

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. Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.

Physical and chemical properties		
Information on basic physical and chemical properties		
General Information		
Appearance:		
Form:	iquid	
Odor:	lót determined	
Odor threshold:	lot determined.	
	tot dotorminou.	

Product name: Bis(trimethvlsilvl)acetvlene

pH-value: Not determined. Change in condition Melting range: 20-24 °C (68-75 °F) Boiling point/Melting range: 134-136 °C (273-277 °F) Sublimation temperature / start: Not determined Flash point: 2 °C (36 °F) Flash point: Not determined Jaption temperature: Not determined Auto igniting: Not determined Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures is possible. Explosion limits: Vapor pressure: Upper: Not determined Vapor pressure: Not determined. Vapor pressure: Not determined. Vapor density Not determined. Vapor density Not determined. Vapor density Not determined. Vapor otensity Not determined. <tr< th=""><th colspan="5">roduct name: Bis(trimethylsilyl)acetylene</th></tr<>	roduct name: Bis(trimethylsilyl)acetylene				
Change in condition Melting point/Melting range: 20-24 °C (68-75 °F) Boiling point/Melting range: 134-136 °C (273-277 °F) Sublimation temperature / start: Not determined Flash point: 2 °C (36 °F) Flash point: 2 °C (36 °F) Ignition temperature: Not determined Junition temperature: Not determined Auto igniting: Not determined Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures is possible. Explosion limits: Lower: Lower: Not determined Vapor pressure: Not determined Vapor pressure: Not determined Vapor pressure: Not determined Vapor pressure: Not determined. Vapor density Not determined. Vapor pressure: Not determined. Vapor density Not determined.			(Contd. of page 2)		
Melfing point/Melting range: 20-24 °C (68-75 °F) Boiling point/Boiling range: 134-136 °C (273-277 °F) Sublimation temperature / start: Not determined Flash point: 2 °C (36 °F) Flammability (solid, gaseous) Not determined. Jgnition temperature: Not determined. Decomposition temperature: Not determined. Decomposition temperature: Not determined. Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures is possible. Explosion limits: Lower: Not determined Upper: Not determined Denger of explosion: Not determined Upper: Not determined Upper: Not determined Density at 20 °C (68 °F): 0.77 g/cm³ (6.426 lbs/gal) Relative density Not determined. Vapor density Not determined. Vapor rate Not determined. Solubility in / Miscibility with Not determined. Vater: Not determined. Vapor density Not determined. Vapor density Not determined. Viscosity: Not determined.	pH-value:	Not determined.			
Flammability (solid, gaseous) Not determined. Ignition temperature: Not determined Decomposition temperature: Not determined Auto igniting: Not determined Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures is possible. Explosion limits: Lower: Lower: Not determined Upper: Not determined Density at 20 °C (68 °F): 0.77 g/cm³ (6.426 lbs/gal) Relative density Not determined. Vapor density Not determined. Solubility in / Miscibility with Not determined. Water: Not determined. Solubility in / Miscibility with Not determined. Water: Not determined. Viscosity: Not determined. Viscosity: Not determined. Viscosity: Not determined. Water: Not determined. Viscosity: Not determined. Viscosity: Not determined. dynamic: Not determined. Kinematic: Not determined.	Melting point/Melting range: Boiling point/Boiling range:	134-136 °C (273-277 °F)			
Explosion limits: Not determined Lower: Not determined Upper: Not determined Vapor pressure: Not determined Density at 20 °C (68 °F): 0.77 g/cm³ (6.426 lbs/gal) Relative density Not determined. Vapor density Not determined. Evaporation rate Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Water: Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined. Viscosity: Not determined. dynamic: Not determined. kinematic: Not determined.	Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined Not determined Not determined			
	Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water). Viscosity: dynamic: kinematic:	Not determined Not determined Not determined 0.77 g/cm ³ (6.426 lbs/gal) Not determined. Not determined. Not determined. Not miscible or difficult to mix Not determined. Not determined.			

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 Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Silicon oxide			
11 Toxicological information			
Information on toxicological effects Acute toxicity: No effects known. 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.			
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 Transport information			
UN-Number DOT, IMDG, IATA UN1993			

UN proper shipping name DOT ADR Flammable liquids, n.o.s. (Bis(trimethylsilyl)acetylene) 1993 Flammable liquids, n.o.s., special provision 640D (Bis(trimethylsilyl) acetylene) FLAMMABLE LIQUID, N.O.S. (Bis(trimethylsilyl)acetylene) IMDG, IATA (Contd. on page 4)

Product name: Bis(trimethyIsilyI)acetylene

	(Contd. of page 3)	
Transport hazard class(es)		
- 		
Class	3 Flammable liquids	
Label	3	
ADR		
Class	3 (F1) Flammable liquids	
Label IMDG, IATA	3	
Class	3 Flammable liquids	
Label	3	
Packing group DOT, ADR, IMDG, IATA	11	
Environmental hazards:	Not applicable.	
Special precautions for user Stowage Category	Warning: Flammable liquids	
Transport in bulk according to Annex II of MARPOL73/78	and the IBC Code Not applicable.	
Transport/Additional information:		
DOT Quantitu limitationa	On personner airer threit, 60 l	
Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L	
Marine Pollutant (DOT):	No	
IMDG Limited quantities (LQ)	5L Code: E1	
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUIDS, N.O.S., SPECIAL PROVISION 640D (BIS(TRIMETHYLSILYL)ACETYLENE), 3, II	
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. P261 Avoid breathing dust/fume/gas/mist/vapors/spray	No smoking.	
National regulations	nental Protection Agency Toxic Substances Control Act Chemical substance Inventory.	
All components of this product are listed on the Canadian Nor	n-Domestic Substances List (NDSL).	
SARA Section 313 (specific toxic chemical listings) Subst California Proposition 65		
Prop 65 - Chemicals known to cause cancer Substance is Prop 65 - Developmental toxicity Substance is not listed.	not listed.	
Prop 65 - Developmental toxicity, female Substance is not		
Prop 65 - Developmental toxicity, male Substance is not lis Information about limitation of use: For use only by technic	cally qualified individuals.	
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	
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 manufacturing and the condition of the conditions of the condition		
market and use must be observed. Substance is not listed.		
Annex XIV of the REACH Regulations (requiring Authoris Chemical safety assessment: A Chemical Safety Assessme	and not use, substance is not listed.	
information to ensure proper use and protect the health and s	to other information gathered by them, and should make independent judgement of suitability of this afety of employees. This information is furnished without warranty, and any use of the product not in it the record of the record in the record of the record.	
conformance with this Safety Data Sheet, or in combination w Department issuing SDS: Global Marketing Department	vith any other product or process, is the responsibility of the user.	
Date of preparation/Revision: Print date, revision date and v	version number are in the header of each page.	
ADDR: Accord européen sur le transport des marchandises dangereuses par Route MDC: latomotioned Martines Cado for Desamere Cado for	e (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		
EINECS: European Inventory of Existing Commercial Chemical Substances	(Contd. on page 5	
	- USA	



Product name: Bis(trimethylsilyl)acetylene

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 DBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern VPWE: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Flam. Liq. 2: Flammable liquids – Category 2 (Contd. of page 4)

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