

Safety Data Sheet 5166302 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/07/2017 Version: 1.0

CAS No : 353-43-5 Product code : 5166-3-02 Forduct code : 5166-3-02 Synonyms : Trifluoro[1,1'thiobis(methane)]boron; Dimethyl sulfide-trifluoroborane; Trifluoroborane-methyl sulfide Synonyms : Trifluoro[1,1'thiobis(methane)]boron; Dimethyl sulfide-trifluoroborane; Trifluoroborane-methyl sulfide Uther means of identification : MECD00013193 1.2. Relevant identified uses of the substance or mixture and uses advised against Jsee of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynOuest SynOuest Laboratory chemicals Manufacture of substances ong 8ynouestabs.com - www.suguestabas.com Idea Idea 1.4. Emergency telephone number : Idea Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazerd(s) identification Idea Idea Idea 2.1 Classification of the substance or mixture Idea Idea Idea 2.3 H225 - Highyl flammable iquid and vapour Sin Cor. 1		
Substance name : Boron trifloride methyl sulfide complex CAS No : 333-43-5 Product code : 353-43-5 Formula : C2H6BF3S Synonyms : Trifloron(1,1 thiobis(methane))boron; Dimethyl sulfide-trifluoroborane; Trifluoroborane; Trif	Product form	0. Astronom
CAS No : 353-43-5 Product code : 5166-3-02 Formula : C2HBBP-35 Synonyms : Trifluor(1,1 thiobis/methane)/boron; Dimethyl sulfide-trifluoroborane; Trifluoroborane-methy sulfide : MECOD0013193 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Laboratory chemicals Manufacture of substances Signal work identification : MECOD00013193 1.2. Details of the supplier of the safety data sheet Synoueset Laboratory chemicals Manufacture of substances Signal work (SHS-US) FUI data file Substance or mixture and uses advised against 1.4. Emergency telephone number Emergency telephone number 1.4. Emergency telephone number 1.5. Dotails of ne supplier of messafes com 1.4. Emergency telephone number Emergency telephone number 1.4. Emergency telephone number 1.5. Dotails of ne supplier of messafes com 1.4. Emergency telephone number Emergency telephone number 1.4. Emergency telephone number 1.5. May couse respiratory initiation 1.6. Couses serious eye demage 1.7. Classification of the substance or mixture Classification (CHS-US) 1.8. Couses serious eye demage 1.9. Tabis - Kauses serious eye demage 1.9. Couses serious eye demage 1.9. Classes see section 16 2.1. Label elements 1.9. Despir Hazard pictograms (GHS-US) 1.9. Exercise Section 1.9. Despir Hazard statements (GHS-US) 1.9. Exercise Section 1.9. Exercise Section 1.9. Despir Hazard statements (GHS-US) 2.9. Despir Hazard statements (GHS-US) 2.9. Despir Hazard statements (GHS-US) 3.9. May cause respiratory irritation Precautionary statements (GHS-US) 3.9. May cause respiratory irritation Precautionary statements (GHS-US) 3.9. May cause respiratory irritation Precautionary statements (GHS-US) 3.9. May cause respiratory ir		
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P ^C O. Box 309 Machua, FL 32615 - United States of America T (386) 462-7088 - F (386) 462-7087 info@synquestlabs.com - www.synquestlabs.com 1.4. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture Classification (CHS-US) Finn. Liq. 2. H225 - Highly flammable liquid and vapour Skin Corr. 1B H314 - Causes servere skin burns and eye damage Eye Dam. 1 H318 - Causes servere skin burns and eye damage Eye Dam. 1 H318 - Causes servere skin burns and eye damage STOT SE 3 H355 - May cause respiratory irritation Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Hazard statements (GHS-US) Find Exercised Statements (GHS-US) Find SE 3 - May cause respiratory irritation Precautionary statements (GHS-US) Find SE 3 - May cause respiratory irritation Precautionary statements (GHS-US) Find CHS-US) Find CHS-US Find CHS-US Fin	1.3. Details of the supplier of the safe	ty data sheet
Emergency number: (844) 523-4086 (3E Company - Account 10069)SECTION 2: Hazard(s) identification2.1. Classification of the substance or mixtureClassification (GHS-US)Flam. Lip. 2H235 - Highly flammable liquid and vapour Skin Corn. 1BSkin Corn. 1BH314 - Causes severe skin burns and eye damage STOT SE 3Yoo TS 2H335 - May cause respiratory irritation Full text of H-phrases: see section 162.2. Label elementsGHS-US labelingHazard pictograms (GHS-US)Hazard pictograms (GHS-US):::<	T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.	
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P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing	Classification (GHS-US) Flam. Liq. 2 H225 - Highly flammable liques Skin Corr. 1B H314 - Causes severe skin lieves Eye Dam. 1 H318 - Causes serious eye STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 uid and vapour burns and eye damage damage ry irritation Image of the second s

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	lens P31 P32 P36 P37 P40 P40 P40	es, if present and easy to do. Cor 0 - Immediately call a POISON CI 1 - Specific treatment (see supple 3 - Wash contaminated clothing b	ntinue rinsing ENTER or doctor/ phy mental first aid instruc- efore reuse sand, dry chemical or d place. Keep contain d place. Keep cool	ctions on this label) alcohol-resistant foam to extinguish er tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GH	S US)			
Not applicable				
SECTION 3: Composition/info	mation on i	ngredients		
3.1. Substance				
Substance type	: Mor	no-constituent		
Name		Product identifier	%	Classification (GHS-US)
Boron trifluoride methyl sulfide complex (Main constituent)		(CAS No) 353-43-5	<= 100	Flam. Liq. 2, H225 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures	S			
4.1. Description of first aid meas	ures			
First-aid measures general		ase of accident or if you feel unwe re possible). Move the affected pe		
First-aid measures after inhalation		nove person to fresh air and keep piration. Get immediate medical ac		hing. If not breathing, give artificial
First-aid measures after skin contact	con area		5% calcium gluconate	d clothing and shoes. In case of skin gel continuously into the affected Get immediate medical
First-aid measures after eye contact		nediately flush eyes thoroughly wit sent and easy to do. Continue rins		minutes. Remove contact lenses, if edical advice/attention.
First-aid measures after ingestion		NOT induce vomiting. Never give a uth out with water. Get immediate		
4.2. Most important symptoms a	nd effects, both	n acute and delayed		
Symptoms/injuries		most important known symptoms and/or in section 11.	and effects are desc	ribed in the labelling (see section
Symptoms/injuries after inhalation		erial is destructive to tissue of the rtness of breath, headache, nause		s and upper respiratory tract. Cough,
4.3. Indication of any immediate	medical attenti	on and special treatment neede	d	
Treat symptomatically. Absorption of exc and organ damage (heart, liver, kidneys)		esult in acute systemic fluorosis wi	ith hypocalcemia, inte	rference with various metabolic function
SECTION 5: Firefighting meas	ures			
5.1. Extinguishing media				
Suitable extinguishing media		bhol resistant foam. Carbon dioxid	e. Dry powder. Water	spray. Use extinguishing media

5.2. Special hazards arising from the	Special hazards arising from the substance or mixture		
Fire hazard	: Thermal decomposition generates: Borane/boron oxides. Carbon oxides. Hydrogen fluoride. Sulfur oxides.		
Explosion hazard	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. May form flammable/explosive vapor-air mixture.		

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5.3.	Advice for firefighters	
Firefigh	ting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protecti	on during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECT	ION 6: Accidental release me	asures
6.1.	Personal precautions, protective	equipment and emergency procedures
Genera	Imeasures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
6.1.1.	For non-emergency personnel	
Emerge	ency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2.	For emergency responders	
Protecti	ve equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

ignition.

6.3.	Methods and material for containment and cleaning up		
For cont	ainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.	
Methods	s for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.	
Other in	formation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".	

: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground

level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of

6.4. Reference to other sections

No additional information available

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 handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	g any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.

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Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.
SECTION 9: Physical and chemical properties	

SECTION 9. Physical and chemical	rproperties	
9.1. Information on basic physical and	chemical properties	
Physical state	: Liquid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: -16 °C	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Vapor pressure	: No data available	
Relative density	: No data available	
Relative vapor density at 20 °C	: No data available	
Specific gravity / density	: 1.235 g/ml (@ 25 °C)
Molecular mass	: 129.94 g/mol	
Solubility	: No data available	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	

9.2. **Other information**

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	tional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	acids. Strong bases. Strong oxidizing agents.
10.6.	Hazardous decomposition products
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of e Section 5.
SECT	ION 11: Toxicological information

11.1. Information on toxicological effects

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Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Absorption of excessive F- can result in acute systemic fluorosis with hypocalcemia, interference with various metabolic functions and organ damage (heart, liver, kidneys).
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECTION 12: Ecological information		
12.1. Toxic	sity	
No additional information available		
12.2. Persi	istence and degradability	
No additional in	formation available	
12.3. Bioad	ccumulative potential	
No additional in	formation available	
12.4. Mobi	lity in soil	
No additional information available		
12.5. Othe	r adverse effects	
No additional information available		

SECTION 13: Disposal consider 13.1. Waste treatment methods		
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.	
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Additional information	: Recycle the material as far as possible.	
SECTION 14: Transport informa	tion	

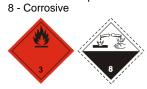
Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)

- : UN2924 Flammable liquids, corrosive, n.o.s., 3, II
- : UN2924
- : Flammable liquids, corrosive, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



- : II Medium Danger
- : 202
- : 243

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DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 5L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG No additional information available	
Transport by sea UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Packing group (IMDG)	 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. 3 - Flammable liquids II - substances presenting medium danger
Air transport UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA) Packing group (IATA)	 2924 Flammable liquid, corrosive, n.o.s. 3 - Flammable Liquids II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

Substances Control Act (190A) Inventory exception.				
Boron trifluoride methyl sulfide complex	CAS No 353-43-5	100%		

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

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Boron trifluoride methyl sulfide complex (353-43-5) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Eye Dam. 1	Serious eye damage/eye irritation Category 1		
Flam. Lig. 2	Flammable liquids Category 2		
Skin Corr. 1B	Skin corrosion/irritation Category 1B		
STOT SE 3	Specific target organ toxicity (single exposure) Category 3		
H225	Highly flammable liquid and vapor		
H314	Causes severe skin burns and eye damage		
H318	Causes serious eye damage		
H335	May cause respiratory irritation		
NFPA fire hazard NFPA reactivity	 given. 3 - Liquids and solids that can be ignited under almost all ambient conditions. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 		
HMIS III Rating	·		
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given		
Flammability : 3 Serious Hazard - Materials capable of ignition under almost all normal t conditions. Includes flammable liquids with flash points below 73 F and b 100 F. as well as liquids with flash points between 73 F and 100 F. (Class			
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.		

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.