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Boron trifluoride tetrahydrofuran complex

Safety Data Sheet M008301 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/29/2020 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Boron trifluoride tetrahydrofuran complex
CAS No	: 462-34-0
Product code	: M008-3-01
Formula	: C4H8BF3O
Other means of identification	: MFCD00040372
1.2. Relevant identified uses of the	e substance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the s	afety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ame T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestla	abs.com
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identifica	ation
2.1. Classification of the substanc	
Classification (GHS-US)	
Flam. Liq. 4 H227 Acute Tox. 4 (Oral) H302 Acute Tox. 4 (Inhalation:dust,mist) H332 Skin Corr. 1A H314 Eye Dam. 1 H318 STOT SE 3 H335	 7 - Combustible liquid 2 - Harmful if swallowed 2 - Harmful if inhaled 4 - Causes severe skin burns and eye damage 8 - Causes serious eye damage 5 - May cause respiratory irritation 3 - May cause damage to organs through prolonged or repeated exposure
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	CHS05 GHS07 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H227 - Combustible liquid H302+H332 - Harmful if swallowed or if inhaled H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation H373 - May cause damage to organs through prolonged or repeated exposure
Precautionary statements (GHS-US)	 P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking P260 - Do not breathe dust/fume/gas/mist/vapors/spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
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	lenses, if present and easy to do. P310 - Immediately call a POISOI P314 - Get medical advice/attentio P321 - Specific treatment (see su P330 - Rinse mouth P363 - Wash contaminated clothir	Continue rinsing N CENTER or doctor/ physion if you feel unwell pplemental first aid instruction dry sand, dry chemical or a lated place. Keep containe lated place. Keep cool	tions on this label) alcohol-resistant foam to extinguish ar tightly closed
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/informatio	on on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
Boron trifluoride tetrahydrofuran complex (Main constituent)	(CAS No) 462-34-0	<= 100	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373
Full text of H-phrases: see section 16	· · · · ·	·	
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: In case of accident or if you feel u where possible). Move the affecte		
First-aid measures after inhalation	: Remove person to fresh air and ke respiration. Get immediate medica		ing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and wat contact, wearing rubber gloves rul area for 1.5 hours or until further r advice/attention.	b 2.5% calcium gluconate	
First-aid measures after eye contact	: Immediately flush eyes thoroughly present and easy to do. Continue		
First-aid measures after ingestion	: Do NOT induce vomiting. Never g mouth out with water. Get immedi		
4.2. Most important symptoms and effect	cts, both acute and delayed		
Symptoms/injuries	: The most important known sympto 2.2) and/or in section 11.	oms and effects are descri	bed in the labelling (see section
Symptoms/injuries after inhalation	: Material is destructive to tissue of shortness of breath, headache, na		and upper respiratory tract. Cough,
4.3. Indication of any immediate medica	l attention and special treatment ne	eded	
Treat symptomatically. Absorption of excessive F and organ damage (heart, liver, kidneys).			ference with various metabolic functions
SECTION 5: Firefighting measures			<u></u>
5.1. Extinguishing media			
Suitable extinguishing media	: Dry powder. Use extinguishing me	edia appropriate for surrou	nding fire.
Unsuitable extinguishing media	: Do not use extinguishing media co	ontaining water.	

5.2.	Special hazards arising from the substance or mixture
Fire haz	zard : Thermal decomposition generates: Borane/boron oxides. Carbon oxides. Hydrogen fluoride.

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Explosion hazard Reactivity	Risk of explosion if heated under confinement.Heating may cause a fire or explosion.
5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection 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".

SECTIO	N 6: Accidental release mea	sures
6.1.	Personal precautions, protective eq	uipment and emergency procedures
General m	neasures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
6.1.1.	For non-emergency personnel	
Emergenc	cy procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2.	For emergency responders	
Protective	equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergenc	y procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2.	Environmental precautions	
Avoid rele	ase to the environment. Notify authorit	ies if product enters sewers or public waters.
6.3.	Methods and material for containme	ent and cleaning up
For contai	nment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods f	or 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.

: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

Other information

6.4. **Reference to other sections**

No additional information available

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
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.
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, includi	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Hygroscopic. 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

Control parameters 8.1.

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.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.

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Other information

: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemica	
9.1. Information on basic physical and	
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 8-9 °C
Freezing point	: No data available
Boiling point	: 180 °C
Flash point	: No data available
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	: 0.0825 mm Hg (@ 20 °C)
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.15 g/ml
Molecular mass	: 139.912 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	
SECTION 10: Stability and reactivi	ty
10.1. Reactivity	
Heating may cause a fire or explosion.	
10.2. Chemical stability	
The product is stable at normal handling and s	storage conditions.
10.3. Possibility of hazardous reactions	S
No additional information available	
10.4. Conditions to avoid	
Keep away from heat, sparks and flame. Mois	sture.
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition produc	cts
Under normal conditions of storage and use, h fire, see Section 5.	nazardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological inform	ation
11.1. Information on toxicological effect	
Acute toxicity	: Oral: Harmful if swallowed. Inhalation:dust,mist: Harmful if inhaled.

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Boron trifluoride tetrahydrofuran complex (4	62-34-0)
LD50 oral rat	326 mg/kg
LC50 inhalation rat (mg/l)	1.21 mg/l
ATE US (oral)	326.000 mg/kg body weight
ATE US (vapors)	1.210 mg/l/4h
ATE US (dust, mist)	1.210 mg/l/4h
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)	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECTI	ON 12: Ecological information
12.1.	Toxicity
No addit	tional information available
12.2.	Persistence and degradability
No addit	tional information available
12.3.	Bioaccumulative potential
No addit	tional information available
12.4.	Mobility in soil
No addit	tional information available
12.5.	Other adverse effects
No addit	tional information available

SECTION 13: Disposal consideration	tions
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 informati	on
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN3265 Corrosive liquid, acidic, organic, n.o.s., 8, II
UN-No.(DOT)	: UN3265
Proper Shipping Name (DOT)	: Corrosive liquid, acidic, organic, n.o.s.
Transport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive

Packing group (DOT)

- : II Medium Danger

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DOT Packaging Bulk (49 CFR 173.xxx) : 242 DOT Symbols :: G - Identifies PSN requiring a technical name DDT Symbols :: B2 - MG 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCS: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H2); Nortal	DOT Symbols:G - IderDOT Special Provisions (49 CFR 172.102):B2 - MC not auth IB2 - AC (31HZ1) kPa at 5 T11 - 6 TP2 - a. following tempera cubical the max liquids t Where: (59 F) a TP27 - , provide material MAWP.DOT Packaging Exceptions (49 CFR 173.xxx):154 1 LDOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27):154DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75):30 LDOT Vessel Stowage Location:B - (i) T passeng passeng sectionDOT Vessel Stowage Other Other information to additional information available:No suppTDG No additional information available:::Turnsport by sea UN-No. (IMDG)::::UN-No. (IMDG)::::Proper Shipping Name (IMDG)::::	 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are orized. thorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 to C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. 178.274(d)(2) Normal
DOT Special Provisions (49 CFR 172.102) : B.2 - MC 300, MC 301, MC 302, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. B2 - Authorized IBCs: Metal (31A, 31B and 31N); rigid plastics (31H1 and 31H2); Composite (31H21) - 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. T1 1 - 6 178 Z74(d)(2) Normalizement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.3 bar at 132 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T1 2 - 5, The maximum degree of tilling durust not exceed the degree of tilling determined by the following; (mage) Where: it is the maximum mean bulk temperature during transport. If is the tempring transport of the liquid at 15 C (159 F) and 50 C (122 F), or 130 kPa at 55 C (1.4 bar at 128 F), or 130 kPa at 55 C (1.5 bar at 151 F) are authorized. DDT Quantity Limitations Passenger aircraft/rail : 1 VG GFR 173.20) : 154 DDT Quantity Limitations Passenger aircraft/rail : 1 VG GFR 173.27) : 154 DDT Quantity Limitations Cargo aircraft only 9 : 30 L CFR 175.75) : 15 - 000 kPa at 50 kPa at 0 kPa senger aircraft/rail DDT Vessel Stowage Location : 8 - (() The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passenger is milled to not more than the larger of 25 passengers, or one passenger per each 3 not overall vessel length; and (i) (70 dock only" or passenger specified in paragraph (k)(2)(0	DOT Special Provisions (49 CFR 172.102):B2 - MC not auth IB2 - Au (31HZ1) kPa att FT11 - 6 TP2 - a. followin, tempera cubical the max liquids t Where: (59 F) a TP27 - / provider material MAWP.DOT Packaging Exceptions (49 CFR 173.xxx):154 1 L 1 C TP27 - / provider material MAWP.DOT Packaging Exceptions (49 CFR 173.xxx):154 1 LDOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27):1 L 2 OT Quantity Limitations Cargo aircraft only (49 cFR 175.75)DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75):8 - (i) T passeng 	 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are orized. thorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 to C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. 178.274(d)(2) Normal
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DOT Packaging Exceptions (49 CFR 173.xx) i 154 DOT Quantity Limitations Passenger aircraft/rail i 1 (49 CFR 173.27) i 30 L DOT Quantity Limitations Cargo aircraft only (49) i 30 L CFR 175.75) iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	DOT Packaging Exceptions (49 CFR 173.xxx): 154DOT Quantity Limitations Passenger aircraft/rail: 1 L(49 CFR 173.27): 30 LDOT Quantity Limitations Cargo aircraft only (49: 30 LCFR 175.75): B - (i) TDOT Vessel Stowage Location: B - (i) Tpasseng: sectionDOT Vessel Stowage Other: 40 - StoOther information: No suppTDG: No suppNo additional information availableTransport by seaUN-No. (IMDG): 3265Proper Shipping Name (IMDG): CORRC	ger vessel carrying a number of passengers limited to not more than the larger of 25 gers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on ger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this is exceeded.
49 CFR 173.27)	49 CFR 173.27) 0 DOT Quantity Limitations Cargo aircraft only (49 : 30 L CFR 175.75) DOT Vessel Stowage Location DOT Vessel Stowage Other COT Vessel Stowage Other Stop DOT Vessel Stowage Other Stop DTher information Stop Stop <td>ger vessel carrying a number of passengers limited to not more than the larger of 25 gers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on ger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this is exceeded.</td>	ger vessel carrying a number of passengers limited to not more than the larger of 25 gers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on ger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this is exceeded.
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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. Transport by sea JN-No. (IMDG) JN-No. (IMDG) : 3265 Proper Shipping Name (IMDG) : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. Class (IMDG) : 8 - Corrosive substances Packing group (IMDG) : 11 - substances presenting medium danger Air transport JN-No. (IATA) Solor Shipping Name (IATA) : 3265 Proper Shipping Name (IATA) : 3265	passeng passeng passeng passeng section DOT Vessel Stowage Other : 40 - Sto Dther information : No supp TDG No additional information available Transport by sea JN-No. (IMDG) : 3265 Proper Shipping Name (IMDG) : CORRC	ger vessel carrying a number of passengers limited to not more than the larger of 25 gers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on ger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this is exceeded.
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Proper Shipping Name (IATA): Corrosive liquid, acidic, organic, n.o.s.Class (IATA): 8 - Corrosives	the second s	
Class (IATA) : 8 - Corrosives		
Packing group (IATA) : II - Medium Danger		
	Packing group (IATA) : II - Med	um Danger
	SECTION 15: Regulatory information 15.1. US Federal regulations	

Substances Control Act (TSCA) inventory except for: Boron trifluoride tetrahydrofuran complex CAS No 462-34-0 100%

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

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EU-Regulations

No additional information available

National regulations

No additional information available

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

Full text of H-phrases:

ext of fi-philases.	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 4	Flammable liquids Category 4
Skin Corr. 1A	Skin corrosion/irritation Category 1A
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated
	exposure

NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity	: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

SDS US (GHS HazCom 2012)

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