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# MTG007

## **Boron trifluoride**

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name	Boron trifluoride
Chemical description	Boron trifluoride
CAS N°	7637-07-2
CE N°	231-569-5
Index N°	005-001-00-X
Registration n°	01-2119534579-27
Chemical formula	BF <sub>3</sub>

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Industrial and professional Test gas/Calibration gas Chemical reaction / Synthesis Use for manufacture of electronic/photovoltaic components Laboratory use
	Laboratory use Contact supplier for more information on uses
Uses advised against	Consumer use not recommended

#### 1.3. Details of the supplier of the safety data sheet

Company identification	MULTIGAS Route de l'Industrie 102 CH-1564 Domdidier
Phone number	+41 (0) 26 676 94 94
E-mail address	info@multigas.ch

## 1.4. Emergency telephone numbers

145 (Toxicology Centre Zurich) or +41 (0) 44 251 51 51 +41 (0) 26 676 94 94 (Multigas)

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical hazards

Gases under pressure : Liquefied gas Skin corrosion/irritation, Category 1B

H280 H314



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Serious eye damage/eye irritation, Category 1	H318
Acute toxicity (inhalation: gas) Category 2	H330
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
May cause damage to organs through prolonged or repeated exposure cause the hazard	H373

For the complete H-sentences texts mentioned in that chapter, refer to Section 16

## 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms	GHS04 GHS05 GHS06 GHS08	
Signal word	Danger	
Hazard statements		
H280	Contains gas under pressure; may explode if heated	
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H330	Fatal if inhaled	
H335	May cause respiratory irritation	
H373	May cause damage to organs through prolonged or repeated exposure	
EUH014	Reacts violently with water	
EUH071	Corrosive to the respiratory tract	
Precautionary statements		
P260	Do not breathe gas, vapours	
P280	Wear protective gloves, protective clothing, eye protection, face protection	
P303+P361+P353+P315 IF ON SKIN: (or hair) Remove/Take off immediately all contamina clothing. Rinse skin with water/shower. Get immediate medical advic attention		
P304+P340+P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician	
P305+P351+P338+P315	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice / attention	
P410+403	Protect from sunlight. Store in a well-ventilated place	
P405	Store locked up	



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## 2.3. Other hazards

None

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Name	Product identifier	Concentration	Classification
Boron trifluoride	(CAS-No.) 7637-07-2 (EC-No.) 231-569-5 (EC Index-No.) 005-001-00-X (Registration-No.) 01-2119534579-27	<= 100%	Press. Gas (Liq.), H280 Acute Tox. 2 (Inhalation: gas), H330 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373

For the complete H-sentences texts mentioned in that chapter, refer to Section 16 Contains no other components or impurities which will influence the classification of the product

## 3.2. Mixtures

Not established

SECTION 4: First aid measures
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#### 4.1. Description of first aid measures

General advice	See a doctor. Show this safety data sheet to the attending physician
In case of inhalation	In case of inhalation, remove the person from the contaminated area. In case of respiratory arrest, give artificial respiration. See a doctor
In case of skin contact	Remove contaminated clothing and shoes immediately. Wash with soap and plenty of water. Take victim immediately to hospital. See a doctor
In case of eyes contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a doctor
In case of ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. See a doctor

## 4.2. Most important symptoms and effects, both acute and delayed

May cause severe chemical burns to skin and cornea. Suitable first-aid treatment should be immediately available. Seek medical advice before using product Material is destructive to tissue of the mucous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea

Refer to section 11

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat with corticosteroid spray as soon as possible after inhalation



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## **Boron trifluoride**

# SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media Water spray or water mist. Dry powder. Foam Unsuitable extinguishing media Do not use water jet to extinguish 5.2. Special hazards arising from the substance or mixture Specific hazards In case of fire or excessive heat, hazardous combustion products may be produced Hazardous combustion products In case of fire or excessive heat, hazardous combustion products may be produced extinguish in case of fire or excessive heat, hazardous combustion products may be produced be produced be produced such as : gaseous hydrogen fluoride, borane / boron oxide 5.3. Additional information Exposure to fire or excessive heat, hazardous combustion products may be produced such as : gaseous hydrogen fluoride, borane / boron oxide

Cool endangered receptacles with water spray jet from a protected position

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, spray mists or gases Provide adequate ventilation Remove all sources of ignition Evacuate personnel to a safe place Beware of vapours that accumulate forming explosive concentrations. Vapours may accumulate in low areas Personal protective equipment, see section 8

## 6.2. Environmental precautions

Try to stop the leak

## 6.3. Methods and material for containment and cleaning up

Ventilate the area Keep area evacuated and free from ignition sources until any spilled liquid has evaporated (ground free from frost)

## 6.4. Reference to other sections

See also sections 8 and 13



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## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Avoid contact with skin and eyes Avoid breathing vapour or mist Avoid contact with aluminium For precautions, see section 2.2

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry and wellventilated place Content under pressure

## 7.3. Specific end use(s)

None

#### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### Components with occupational exposure limits

Component	CAS N°	Exposure value type	Control parameter	Source
	7637-07-02	TWA OEL	1 ppm	SUVA: Limit values of
Deren triffueride			3 mg/m <sup>3</sup>	exposure to workstations
Boron trifluoride			1 ppm	SUVA: Limit values of
			3 mg/m <sup>3</sup>	exposure to workstations

## 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation Gas detectors should be used when toxic gases may be released

#### 8.2.2. Individual protection measures, e.g. personal protective equipment

Eye/face protection	Wear goggles and a face shield when transfilling or breaking transfer connections. Standard EN 166
Skin / hand protection	Wear protective gloves when handling gas cylinders. Standard EN 388
	The selected protective gloves have to satisfy the specifications of EU Directive 89/686 / EEC and the standard EN 374 derived from it



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#### For short-term use

Material: Fluorinated rubber Penetration time:> 30 min

Glove thickness: 0.6 mm

#### For long-term use

Material: Fluorinated rubber

Penetration time:> 480 min

Glove thickness: 0.7 mm

Have appropriate, chemical-resistant protective clothing ready for use in emergencies. Standard EN943-1

Respiratory protection

Self-contained breathing apparatus (SCBA) or positive pressure air mask must be used in oxygenated atmospheres. Standard EN 137 - Self-contained compressed air device with a full face mask

#### 8.2.3. Environmental exposure controls

No data available

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance	
<ul> <li>Physical state at 20°C / 101.3kPa</li> </ul>	Gas
• Colour	Colourless
Odour	No data available
Odour threshold	No data available
рН	No data available
Melting point / Freezing point	-126.8
Boiling point	-100°C
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data available
Vapour pressure [20°C]	0.04 bar
Vapour pressure [50°C]	No data available
Vapour density	No data available
Relative density, liquid (water=1)	1.6
Relative density, gas (air=1)	2.4
Water solubility	No data available
Partition coefficient	No data available
n-octanol/water (Log Kow)	



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Boron trifluoride		MTG007	
Auto-ignition temperature	No data available		
Decomposition temperature	No data available		
Viscosity	No data available		
Explosive properties	No data available		
Oxidising properties	No data available		
9.2. Other information			
Molar mass	68 g/mole		
Critical temperature [°C]	-12.3°C		
Relative density, gas	Gas/vapour heavier than air. May accu particularly at or below ground level	Gas/vapour heavier than air. May accumulate in confined spaces,	
SECTION 10: Stability and read	ctivity		
10.1. Reactivity			
	No reactivity hazard other than the effects de	escribed in sub-sections below	
10.2. Chemical stability			
	Stable under recommended storage conditio	ns	
10.3. Possibility of hazardous re	actions		
	Reacts violently with water		
10.4. Conditions to avoid			
	Avoid moisture in installation systems		
	Reacts with glass		
10.5. Incompatible materials			
	Alkaline metals		
	Boron trifluoride reacts violently with alkyl nit of several hours	rates after an induction period	
	Reacts with alkalis or alkaline earth metals		
	Do not use mercury manometers because mercury	boron trifluoride is soluble in	
	Reacts with most metals in the presence of extremely flammable gas	moisture, releasing hydrogen,	
	For more information on compatibility, refer t	o ISO 11114	

## 10.6. Hazardous decomposition products

Hazardous products are formed in case of fire: Hydrogen gas flower, borane / boron oxides



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## **Boron trifluoride**

## **SECTION 11: Toxicological information**

Acute toxicity	Fatal if inhaled	
Skin corrosion/irritation	Causes severe skin burns and eye damage	
Serious eye damage/irritation	Causes serious eye damage	
Respiratory or skin sensitisation	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicity	No data available	
Reproductive toxicity	No data available	
STOT-single exposure – Target organ(s)	Severe corrosion to the respiratory tract at high concentrations	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure	
Ingestion hazard	No data available	

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Assessment

Classification criteria are not met

#### 12.2. Persistence and degradability

No data available

## 12.3. Bioaccumulative potential

No data available

## 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

 $\mathsf{PBT}$  /  $\mathsf{vPvB}$  assessment is not available because the chemical safety assessment is not required / is not conducted

## 12.6. Other adverse effects

No data available



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## **Boron trifluoride**

SECTION 13: Disposal considerations		
13.1. Waste treatment methods	<u>&gt;</u>	
Product	Must not be released into the atmosphere	
	The gas can be washed with an alkaline solution under controlled conditions to avoid a violent reaction	
	The waste gas must be burned in an incinerator equipped with an afterburner and a purification system	
	Return to the supplier the product not consumed in its original container	
Contaminated container	Return to the supplier the product not consumed in its original container Contact the supplier if instructions are needed	
OMoD Code	16 05 04	
	Gases in pressure containers containing dangerous substances	

#### SECTION 14: Transport information

#### 14.1. UN number

Transport par road/rail	Transport by sea	Transport by air
ADR / RID	IMDG	IATA
1008	1008	1008

## 14.2. UN proper shipping name

Transport par road/rail	Transport by sea	Transport by air
ADR / RID	IMDG	IATA
Boron trifluoride	Boron trifluoride	Boron trifluoride

## 14.3. Transport hazard class(es)

Labelling

ADR/RID IMDG IATA



2.3 : Toxic gases8 : Corrosive substances

14.4. <u>Packing group</u> ADR/RID IMDG IATA

Not established

## 14.5. Environmental hazards

ADR/RID

IMDG

None None



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## **Boron trifluoride**

ICAO-TI / IATA-DGR

None

14.6. Special precautions for user

No data available

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet complies with the requirements of Regulation (CE) No. 1907/2006

#### 15.2. Chemical safety assessment

A CSA does not need to be carried out for this product

SECTION 16: Other information		
Indication of changes	Revised safety data sheet in accordance with commission regulation (EU) No 2015/830	
Abbreviations and acronyms	ADR :	European Agreement concerning the International Carriage of Dangerous Goods by Road
	CAS :	Chemical Abstract Service number (USA)
	CLP :	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
	CSA :	Chemical Safety Assessment
	EIGA :	European Industrial Gases Association
	EINECS :	European Inventory of Existing Commercial Chemical Substances
	EN :	European Standard
	ATE :	Acute Toxicity Estimate
	IATA :	International Air Transport Association
	IMDG Code :	International Maritime Dangerous Goods Code
	LC50 :	Lethal Concentration to 50 % of a test population
	OMoD :	Swiss Ordinance on the movement of waste
	PBT :	Persistent, Bioaccumulative and Toxic
	PPE:	Personal Protection Equipment
	REACH :	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
	RID :	Regulations concerning the international carriage of dangerous goods by rail
	RMM :	Risk Management Measures
	STOT-SE :	Specific Target Organ Toxicity - Single Exposure
	UN :	United Nations



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vPvB : Very Persistent and Very Bioaccumulative WGK: Water Hazards Class

## Full text of H, EUH and P statements used in sections 2 and 3

EUH014       Reacts violently with water         EUH071       Corrosive to the respiratory tract         Precautionary statements       P260         P280       Wear protective gloves, protective clothing, eye protection, face protect         P303+P361+P353+P315       IF ON SKIN: (or hair) Remove/Take off immediately all contamina clothing. Rinse skin with water/shower. Get immediate medical adviattention         P304+P340+P310       IF INHALED: Remove victim to fresh air and keep at rest in a pos comfortable for breathing. Immediately call a POISON CENTER doctor/physician         P305+P351+P338+P315       IF IN EYES: Rinse cautiously with water for several minutes. Rem contact lenses, if present and easy to do. Continue rinsing. Get immediatel advice / attention         P410+403       Protect from sunlight. Store in a well-ventilated place         P405       Store locked up         Disclaimer of liability       Details given in this document have been prepared based on the r available reliable documents and are believed to be correct at the tim		
H314Causes severe skin burns and eye damageH318Causes serious eye damageH330Fatal if inhaledH333Fatal if inhaledH335May cause respiratory irritationH373May cause damage to organs through prolonged or repeated exposureEUH014Reacts violently with waterEUH071Corrosive to the respiratory tractPrecautionary statementsP260Do not breathe gas, vapoursP280Wear protective gloves, protective clothing, eye protection, face protectP303+P361+P353+P315IF ON SKIN: (or hair) Remove/Take off immediately all contamina clothing. Rinse skin with water/shower. Get immediate medical advi attentionP304+P340+P310IF INHALED: Remove victim to fresh air and keep at rest in a post comfortable for breathing. Immediately call a POISON CENTER doctor/physicianP305+P351+P338+P315IF IN EYES: Rinse cautiously with water for several minutes. Rem contact lenses, if present and easy to do. Continue rinsing. Get immedi and cal advice / attentionP410+403Protect from sunlight. Store in a well-ventilated place P405P405Store locked upDisclaimer of liabilityDetails given in this document have been prepared based on the r available reliable documents and are believed to be correct at the tim	Hazard statements	
H318       Causes serious eye damage         H330       Fatal if inhaled         H330       Fatal if inhaled         H335       May cause respiratory irritation         H373       May cause damage to organs through prolonged or repeated exposure         EUH014       Reacts violently with water         EUH071       Corrosive to the respiratory tract         Precautionary statements         P260       Do not breathe gas, vapours         P280       Wear protective gloves, protective clothing, eye protection, face protect         P303+P361+P353+P315       IF ON SKIN: (or hair) Remove/Take off immediately all contamina clothing. Rinse skin with water/shower. Get immediate medical advia attention         P304+P340+P310       IF INHALED: Remove victim to fresh air and keep at rest in a pos comfortable for breathing. Immediately call a POISON CENTER doctor/physician         P305+P351+P338+P315       IF IN EYES: Rinse cautiously with water for several minutes. Rem contact lenses, if present and easy to do. Continue rinsing. Get immediatel advice / attention         P410+403       Protect from sunlight. Store in a well-ventilated place         P405       Store locked up         Disclaimer of liability       Details given in this document have been prepared based on the r available reliable documents and are believed to be correct at the tim	H280	Contains gas under pressure; may explode if heated
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<b>Disclaimer of liability</b> Details given in this document have been prepared based on the r available reliable documents and are believed to be correct at the tim	P410+403	Protect from sunlight. Store in a well-ventilated place
available reliable documents and are believed to be correct at the tim	P405	Store locked up
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