

Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company
Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)
Tel : + 91 98200 41841 Email : info@ottokemi.com Web : www.ottokemi.com

Creation Date: 30-06-2026

Revision Date: 25-11-2021

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Product identifiers

Product Name: Boron trifluoride diethyl etherate
Product Code: B 1978
CAS No: 109-63-7

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)

1.4. Emergency telephone number
Phone no. : + 91 98200 41841 (10 : 00 am – 06 : 00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3
Acute toxicity, Category 4
Acute toxicity, Category 4
Skin corrosion, Sub-category 1B

Serious eye damage, Category 1
Specific target organ toxicity -
repeated exposure, Category 1,
Kidney

2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008)
Hazard pictograms
Signal word
Hazard statements

H226: Flammable liquid and vapour.
H302: Harmful if swallowed.
H332: Harmful if inhaled.
H314: Causes severe skin burns and eye
damage.
H318: Causes serious eye damage.
H372: Causes damage to organs through
prolonged or repeated exposure if inhaled.

: Danger
: H226 Flammable liquid and vapour.
H302 + H332 Harmful if swallowed or if inhaled.
H314 Causes severe skin burns and eye damage.
H372 Causes damage to organs (Kidney) through
prolonged or repeated exposure if inhaled.

Precautionary
statements

Prevention:
P210 Keep away from heat, hot surfaces, sparks,
open flames and other ignition sources. No
smoking.
P280 Wear protective gloves/ protective clothing/
eye protection/ face protection.
Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off
immediately all contaminated clothing.
Rinse skin with water.
P304 + P340 + P310 IF INHALED: Remove person to
fresh air and keep comfortable for
breathing. Immediately call a POISON
CENTER/ doctor.

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Reduced Labelling (<= 125 ml)
Hazard pictograms
Signal word
Hazard Statements
H372

H314
Precautionary Statements
P280

P303 + P361 + P353

P304 + P340 + P310

P305 + P351 + P338

P314
Supplemental Hazard
Statements
2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Strong hydrogen fluoride-releaser

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/ attention if you feel unwell.

:
Danger

Causes damage to organs through prolonged or repeated exposure if inhaled.

Causes severe skin burns and eye damage.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/ attention if you feel unwell.
none

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : Boron trifluoride ethyl etherate

EC-No. : 203-689-8

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
boron trifluoride-diethyl ether complex (1:1)	109-63-7 203-689-8	>= 90 - <= 100	Acute toxicity estimate Acute oral toxicity: 326 mg/kg

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Hydrofluoric (HF) acid burns require immediate and specialized first aid and medical treatment. Symptoms may be delayed up to 24 hours depending on the concentration of HF. After decontamination with water, further damage can occur due to penetration/absorption of the fluoride ion. Treatment should be directed toward binding the fluoride ion as well as the effects of exposure. Skin exposures can be treated with a 2.5% calcium gluconate gel repeated until burning ceases. More serious skin exposures may

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require subcutaneous calcium gluconate except for digital areas unless the physician is experienced in this technique, due to the potential for tissue injury from increased pressure. Absorption can readily occur through the subungual areas and should be considered when undergoing decontamination.

Prevention of absorption of the fluoride ion in cases of ingestion can be obtained by giving milk, chewable calcium carbonate tablets or Milk of Magnesia to conscious victims. Conditions such as hypocalcemia, hypomagnesemia and cardiac arrhythmias should be monitored for, since they can occur after exposure. First aiders need to protect themselves.

Show this safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Immediately call in physician.

If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact : First treatment with calcium gluconate paste.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Call a physician immediately.

In case of eye contact : After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Remove contact lenses.

If swallowed : After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation).

Call a physician immediately.

Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂)

Dry powder

Cover with dry sand or cement.

Unsuitable extinguishing media

Foam

Water

5.2 Special hazards arising from the substance or mixture

Specific hazards during

fire fighting

Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

Hazardous combustion

products

Carbon oxides

Hydrogen fluoride

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Borane/boron oxides

5.3 Advice for firefighters

Special protective
equipment for firefighters

Stay in danger area only with self-contained breathing
apparatus. Prevent skin contact by keeping a safe
distance or by wearing suitable protective clothing.

Further information : Water hydrolyzes material liberating acidic gas which
in contact with metal surfaces can generate
flammable and/or explosive hydrogen gas.

Remove container from danger zone and cool with
water.

Suppress (knock down) gases/vapours/mists with a
water spray jet.

Prevent fire extinguishing water from contaminating
surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Advice for non-emergency personnel:

Do not breathe vapours, aerosols.

Avoid substance contact.

Ensure adequate ventilation.

Keep away from heat and sources of ignition.

Evacuate the danger area, observe emergency
procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Environmental
precautions

Do not let product enter drains.

Risk of explosion.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7
and 10).

Take up carefully with liquid-absorbent material (e.g.
Chemizorb®). Dispose of properly. Clean up affected
area.

6.4 Reference to other sections

For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Work under hood. Do not inhale substance/mixture.

Avoid generation of vapours/aerosols.

Advice on protection

against fire and explosion

Keep away from open flames, hot surfaces and
sources of ignition. Take precautionary measures
against static discharge.

Hygiene measures : Immediately change contaminated clothing. Apply
preventive skin protection. Wash hands and face after
working with substance.

Temperature class : T4

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

Store under nitrogen.

Further information on

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storage conditions

Keep container tightly closed in a dry and wellventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorised persons.

Advice on common storage

Keep away from water.

Storage class (TRGS 510) : 3, Flammable liquids

Further information on

storage stability

Store under inert gas.

Reacts violently with water.

Recommended storage temperature

2 - 8 °C

Packaging material : Suitable material: Poly Drum

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

8.2 Exposure controls

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Tightly fitting safety goggles

Hand protection

Material : Nitrile rubber

Break through time : 480 min

Glove thickness : 0,4 mm

Protective index : Full contact

Manufacturer : Camatril® (KCL 730 / Aldrich Z677442, Size M)

Material : Viton®

Break through time : 120 min

Glove thickness : 0,7 mm

Protective index : Splash contact

Manufacturer : Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Remarks : This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D36124 Eichenzell, Internet: www.kcl.de).

Skin and body protection : Flame retardant antistatic protective clothing.

Respiratory protection : required when vapours/aerosols are generated.

Our recommendations on filtering respiratory

protection are based on the following standards: DIN

EN 143, DIN 14387 and other accompanying

standards relating to the used respiratory protection system.

Recommended Filter

type:

Filter type B

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Environmental exposure controls

Advice : Do not let product enter drains.

Risk of explosion.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: slightly opalescent, yellow
Odour	: No data available
Melting point/ range	: -58 °C
Boiling point/boiling range	: 126 - 129 °C
Flammability	: No data available
Upper explosion limit /	: 36 %(V)
Upper flammability limit	
Lower explosion limit /	: 1,9 %(V)
Lower flammability limit	
Flash point	: 58,5 °C(1.013 hPa) Method: Regulation (EC) No. 440/2008, Annex, A.9, closed cup GLP: yes
Autoignition temperature	: 185 °C (1.013 hPa) DIN 51794
Decomposition temperature	: No data available
pH	: No data available
Viscosity	
Viscosity, dynamic	: 1,89 mPa.s (20 °C)
Viscosity, kinematic	: No data available
Flow time	: No data available
Water solubility	: No data available
Partition coefficient: noctanol/water	: No data available
Vapour pressure	: 2,7 hPa (20 °C)
Relative density	: 1,125 (25 °C)
Density	: 1,15 g/mL
Relative vapour density	: 4,90 (Air = 1.0)
9.2 Other information	
Explosives	: Not classified as explosive.
Oxidizing properties	: none
Burning rate	: No data available
Evaporation rate	: No data available
Molecular weight	: 141,93 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapour/air-mixtures are explosive at intense warming.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Hazardous reactions : Risk of explosion with:

lithium aluminium hydride

Risk of ignition or formation of inflammable gases or
vapours with:

Alkali metals

Water

Acids

Violent reactions possible with:

Oxidizing agents

Alcohols

alkalines

10.4 Conditions to avoid

Conditions to avoid : Water hydrolyzes material liberating acidic gas which
in contact with metal surfaces can generate
flammable and/or explosive hydrogen gas.

Do not allow water to enter container because of

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violent reaction.

Heating.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:

Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity

to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Components:

boron trifluoride-diethyl ether complex (1:1):

Toxicity to daphnia and

other aquatic

invertebrates (Chronic
toxicity)

: NOEC: > 6,4 - < 13,6 mg/l

End point: reproduction rate

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Analytical monitoring: yes

Remarks: (ECHA)

The value is given in analogy to the following
substances:

The value is given in analogy to the following
substances: boric acid

12.2 Persistence and degradability

Components:

boron trifluoride-diethyl ether complex (1:1):

Biodegradability : Test Type: aerobic

Concentration: 100 mg/l

Result: Not readily biodegradable.

Biodegradation: 2,5 %

Exposure time: 28 d

Method: OECD Test Guideline 301C

Remarks: The value is given in analogy to the
following substances:

The value is given in analogy to the following
substances: Diethyl ether

12.3 Bioaccumulative potential

Components:

boron trifluoride-diethyl ether complex (1:1):

Bioaccumulation : Species: Cyprinus carpio (Carp)

Exposure time: 6 Weeks

Temperature: 25 °C

Concentration: 500 mg/l

Bioconcentration factor (BCF): > 0,9 - < 1,4

Method: OECD Test Guideline 305C

Remarks: The value is given in analogy to the
following substances:

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The value is given in analogy to the following

substances: Diethyl ether

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

14.1 UN number or ID number

ADR

: UN 2604

IMDG

: UN 2604

IATA

: UN 2604

14.2 UN proper shipping name

ADR

: BORON TRIFLUORIDE DIETHYL ETHERATE

IMDG

: BORON TRIFLUORIDE DIETHYL ETHERATE

IATA

: Boron trifluoride diethyl etherate

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR

: 8 3

IMDG

: 8 3

IATA

: 8 3

14.4 Packing group

ADR

Packing group

: I

Classification Code

: CF1

Hazard Identification

: 883

Number

Labels

: 8 (3)

Tunnel restriction code

: (D/E)

IMDG

Packing group

: I

Labels

: 8 (3)

EmS Code

: F-E, S-C

IATA (Cargo)

Packing instruction (cargo aircraft)

: 854

Packing group

: I

Labels

: Class 8 - Corrosive substances, Class 3 - Flammable

liquids

IATA_P (Passenger)

Packing instruction

: 850

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(passenger aircraft)
Packing group : I
Labels : Class 8 - Corrosive substances, Class 3 - Flammable
liquids
14.5 Environmental hazards
ADR
Environmentally : no
hazardous
IMDG
Marine pollutant : no
14.6 Special precautions for user
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.
14.7 Maritime transport in bulk according to IMO instruments
Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered:

Number on list 3

Number on list 40

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Not applicable

REACH - List of substances subject to : Not applicable authorisation (Annex XIV)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

H2 ACUTE TOXIC

O1 OTHER HAZARDS

P5c FLAMMABLE LIQUIDS

P5c FLAMMABLE LIQUIDS

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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