

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 tribromide, ≥99.9%
Product Code: B 1981
CAS No: 10294-33-4

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)

Acute toxicity, Category 2
Acute toxicity, Category 2
Skin corrosion, Sub-category 1A

Serious eye damage, Category 1
Carcinogenicity, Category 2
Specific target organ toxicity -
single exposure, Category 3, Central
nervous system

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

H300: Fatal if swallowed.
H330: Fatal if inhaled.
H314: Causes severe skin burns and eye
damage.
H318: Causes serious eye damage.
H351: Suspected of causing cancer.
H336: May cause drowsiness or dizziness.

: Danger
: H300 + H330 Fatal if swallowed or if inhaled.
H314 Causes severe skin burns and eye damage.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

Precautionary
statements

Prevention:

P202 Do not handle until all safety precautions
have been read and understood.
P280 Wear protective gloves/ protective clothing/
eye protection/ face protection.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call
a POISON CENTER/ doctor. Rinse mouth.
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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Hazardous components which must be listed on the label:

Dichloromethane
boron tribromide
Reduced Labelling (<= 125 ml)
Hazard pictograms
Signal word
Hazard Statements
H351
H314
H300 + H330
Precautionary Statements
P202

P280

P301 + P310 + P330

P303 + P361 + P353

P304 + P340 + P310

P305 + P351 + P338

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
Dichloromethane	75-09-2 200-838-9	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 3; H336 (Central nervous system) specific concentration limit STOT SE 3; H336 20 %	>= 70 - < 90
boron tribromide	10294-33-4 233-657-9	Acute Tox. 2; H300 Acute Tox. 2; H330 Skin Corr. 1A; H314 Eye Dam. 1; H318 Acute toxicity estimate Acute oral toxicity: 5,1 mg/kg Acute inhalation toxicity (vapour): 0,51 mg/l	>= 30 - < 50

*A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, or the annual tonnage does not require a registration.
For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : 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 : 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 : If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In

exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. 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

Unsuitable extinguishing media

Water

Foam

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting

Mixture with combustible ingredients.

May not get in touch with: Water

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

Hazardous combustion products

Carbon oxides

Hydrogen bromide gas

Hydrogen chloride gas

Borane/boron oxides

Hazardous combustion products

Carbon oxides

Hydrogen chloride gas

Hydrogen bromide gas

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

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

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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.

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.

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.

Keep workplace dry. Do not allow product to come into contact with water.

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

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Further information on

storage conditions

Tightly closed. Keep in a well-ventilated place. Keep

locked up or in an area accessible only to qualified or authorised persons.

Advice on common

storage

Never allow product to get in contact with water during storage.

Storage class (TRGS 510) : 6.1A, Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

Further information on

storage stability

Moisture sensitive.

Store under inert gas.

Recommended storage

temperature

Recommended storage temperature see product label.

Packaging material : Suitable material: Stainless Steel 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 : Fluorinated rubber

Break through time : 120 min

Glove thickness : 0,7 mm

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Protective index : Splash contact

Manufacturer : Vitoject®

Manufacturer : data source: KCL GmbH, D-36124 Eichenzell, phone
+49 (0)6659 87300, e-mail sales@kcl.de, test
method: EN374

Remarks : Handle with gloves. Gloves must be inspected prior to
use. Use proper glove removal technique (without
touching glove's outer surface) to avoid skin contact
with this product. Dispose of contaminated gloves
after use in accordance with applicable laws and good
laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the
specifications of Regulation (EU) 2016/425 and the
standard EN 374 derived from it.

If used in solution, or mixed with other substances,
and under conditions which differ from EN 374,
contact the supplier of the CE approved gloves. This
recommendation is advisory only and must be
evaluated by an industrial hygienist and safety officer
familiar with the specific situation of anticipated use
by our customers. It should not be construed as
offering an approval for any specific use scenario.

Skin and body protection : 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 ABEK

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Color	: dark brown
Odor	: No data available
Melting point	: No data available
Boiling point	: No data available
Flammability	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
pH	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Water solubility	: No data available
Partition coefficient: noctanol/water	: No data available
Vapor pressure	: No data available
Relative density	: No data available

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Density	: 1,460 g/mL (25 °C)
Relative vapour density	: No data available
9.2 Other information	
Explosives	: Not classified as explosive.
Oxidizing properties	: none
Burning rate	: No data available
Evaporation rate	: No data available
Molecular weight	: 250,52 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available
10.2 Chemical stability
sensitive to moisture
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Conditions to avoid : Moisture.
10.5 Incompatible materials
Materials to avoid : Alcohols
Alkali metals
Aluminum
Metals
Potassium
Sodium/sodium oxides
Strong bases
Reacts violently with water.
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:
Dichloromethane:
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)):
193,00 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates
LC50 (Daphnia magna (Water flea)): 27 mg/l
End point: mortality
Exposure time: 48 h
Test Type: static test
Method: US-EPA
Toxicity to

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microorganisms
EC50 (activated sludge): 2.590 mg/l
Exposure time: 40 min
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 209
Toxicity to fish (Chronic toxicity)
LC50: 471 mg/l
End point: mortality
Exposure time: 8 d
Species: Pimephales promelas (fathead minnow)
Test Type: flow-through test
Analytical monitoring: yes
Remarks: (ECHA)
boron tribromide:
Toxicity to daphnia and other aquatic invertebrates
EC5 (E.sulcatum): 116 mg/l
Remarks: (Hommel)
(maximum permissible toxic concentration)
12.2 Persistence and degradability
Components:
Dichloromethane:
Biodegradability : Test Type: aerobic
Inoculum: activated sludge, non-adapted
Concentration: 5 mg/l
Result: Readily biodegradable.
Biodegradation: 68 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: yes
12.3 Bioaccumulative potential
Components:
Dichloromethane:
Bioaccumulation : Species: Cyprinus carpio (Carp)
Exposure time: 6 Weeks
Concentration: 250 µg/l
Bioconcentration factor (BCF): 2 - 5,4
Method: OECD Test Guideline 305
GLP: yes
Species: Cyprinus carpio (Carp)
Exposure time: 6 Weeks
Concentration: 25 µg/l
Bioconcentration factor (BCF): 6 - 40
Method: OECD Test Guideline 305
GLP: yes
Partition coefficient: noctanol/water
log Pow: 1,25 (20 °C)
pH: 7
Method: (experimental)
Remarks: Bioaccumulation is not expected.
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.

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Components:

Dichloromethane:

Assessment : Not persistent, bioaccumulative, and toxic (PBT).

Not very persistent and very bioaccumulative (vPvB).

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

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

Components:

Dichloromethane:

Ozone-Depletion Potential : The figures relating to ozone-depleting potential are estimates based on existing knowledge and will be reviewed and revised periodically in the light of decisions taken by the Parties.

Regulation: Regulation (EU) No 2024/590 on substances that deplete the ozone layer (Update: 2024-02-20)

Group: Annex II Ozone-Depleting Substances

Referred To In Article 2, Point (A), Not Controlled

Under The Protocol

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

Components:

Dichloromethane:

100-year global warming potential: 11,2

Further information: The figures relating to ozone-depleting potential are estimates based on existing knowledge and will be reviewed and revised periodically in the light of decisions taken by the Parties., Annex II Ozone-Depleting Substances Referred To In Article 2, Point (A), Not Controlled Under The Protocol

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 2922

IMDG : UN 2922

IATA : UN 2922

14.2 UN proper shipping name

ADR : CORROSIVE LIQUID, TOXIC, N.O.S.

(boron tribromide, Dichloromethane)

IMDG : CORROSIVE LIQUID, TOXIC, N.O.S.

(boron tribromide, Dichloromethane)

IATA : Corrosive liquid, toxic, n.o.s.

(boron tribromide, Dichloromethane)

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR : 8 6.1

IMDG : 8 6.1

IATA : 8 6.1

14.4 Packing group

ADR

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Packing group	: I
Classification Code	: CT1
Hazard Identification	: 886
Number	
Labels	: 8 (6.1)
Tunnel restriction code	: (C/D)
IMDG	
Packing group	: I
Labels	: 8 (6.1)
EmS Code	: F-A, S-B
IATA (Cargo)	
Packing instruction (cargo aircraft)	: 854
Packing group	: I
Labels	: Class 8 - Corrosive substances, Division 6.1 - Toxic substances
IATA_P (Passenger)	
Packing instruction (passenger aircraft)	: 850
Packing group	: I
Labels	: Class 8 - Corrosive substances, Division 6.1 - Toxic substances
14.5 Environmental hazards	
ADR	
Environmentally hazardous	: no
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 59:

Dichloromethane

Number on list 75

If you intend to use this product as tattoo ink, please contact your vendor.

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

Dichloromethane

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

Not applicable

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REACH - List of substances subject to
authorisation (Annex XIV)

Not applicable

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

H2 ACUTE TOXIC

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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