

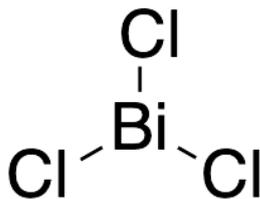
BISMUTH TRICHLORIDE EXTRA PURE

□□□□□□□□
 □□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□
 SDS Reference Number: 02180
 □□ □□ □□: 4/9/2014 □□ □□ □□: 10/27/2025 □□ □□: 4/30/2016 □□: 1.0

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1.1. □□□□

□□ □□ : □□
 □□ □□ : BISMUTH TRICHLORIDE EXTRA PURE
 EC □□ : 232-123-2
 CAS □□ : 7787-60-2
 □□ □□ : 02180
 □□ □□ : Inorganic compound
 □□ □□ : BiCl3
 □□ □□ :



□□ □□ : Bismuth trichloride, Trichlorobismuth, Trichlorobismuthine, Bismuth (III) chloride

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

□□ □□ □□ : Laboratory chemicals, Manufacture of substances
 □□□□/□□□□ □□

1.3. □□□□□□□□ □□□□ □□

LOBA CHEMIE PVT.LTD.
 107 Wode House Road, Jehangir Villa, Colaba
 400005 Mumbai
 INDIA
 T +91 22 6663 6663, F +91 22 6663 6699
info@lobachemie.com, www.lobachemie.com

1.4. □□□□□□

□□ □□ □□ : + 91 22 6663 6663 (9:00am - 6:00 pm)

□□ 2: □□□·□□□

2.1. □□□·□□□ □□

Regulation (EC) No.1272/2008 [CLP] □□ □□ □□
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 H-□□ □ □□□ □□ □□: □□ 16 □□
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2.2. □□□□□□□ □□□ □□□□ □□

□□ (EC) No. 1272/2008 □□ □□ □□ □□ [CLP]
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GHS07

□□□ (CLP) : □□

BISMUTH TRICHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□ REACH □□ (EC) 1907/2006 □□ □□

- □□ (CLP) : H315 - □□□ □□□ □□□.
H319 - □□ □□ □□□ □□□.
- □□ □□(CLP) : P264 - □□ □□□ hands and forearms □(□) □□□ □□□□.
P280 - □□□□, □□□, □□□, □□□□□ □(□) □□□□□.
P302+P352 - □□□ □□□ □□□ □ □□□□□.
P305+P351+P338 - □□ □□□□: □ □□ □□ □□□□ □□□□. □□□□ □□□ □□□ □□□□□. □□ □□□.

2.3. □□ □□

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□□ 3: □□□□□ □□ □ □□□

3.1. □□□□

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□□	□□□□	%
BISMUTH TRICHLORIDE	CAS □□: 7787-60-2 EC □□: 232-123-2	100

□□ 4: □□□□□□

4.1. □□□□ □□

- □□ □□ : If you feel unwell, seek medical advice.
- □□ : □□□ □□□ □□ □□□ □□□ □□ □□□ □□□ □□□□. Allow affected person to breathe fresh air. □□□ □□□□□ □□□ □□□ □□ □□□ □□□ □□ □□□ □□□ □□□□.
- □□□□ □□ : □□□ □□□ □□ □□□□. □□ □□ □ □□□ □□□ □□□□□. □□□□ □□/□□□ □□□□. Wash skin with plenty of water. □□□ □□□ □□□□. □□ □□□ □□□□□: □□□□ □□/□□□ □□□□.
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- □□ : □□ □□□□□. Do not induce vomiting. □□□□ □□□ □□□□(□□)□ □□□ □□□□□.
- Self protection of the first-aider : □□□□ □□□□ □□□ □□ □□ □□□ □□□□ □□□□.

4.2. □□ □ □□□□ □□ □□□ □□ □ □□

- □ □□/□□ : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.
- □□ □ □□/□□ : □□□ □□□ □□□. □□.
- □□ □ □□/□□ : □□ □□ □□□ □□□. Eye irritation.
- □ □□/□□ : None under normal conditions.

4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

□□ 5: □□·□□□ □□□□

5.1. □□□ □□□

- □□□ : Carbon dioxide. Dry powder. Foam. Water spray.
- □□□ : Do not use a heavy water stream.

5.2. □□□□□□□ □□□ □□ □□□

- □□ : No fire hazard.
- □□ : No direct explosion hazard.
- □ □□□ □□□ □□ : Toxic fumes may be released.

BISMUTH TRICHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

5.3. □□□□ □□□□ □ □□□□

- □□ : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
- □□ □ □□ : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. □□□ □□□□□. Complete protective clothing.

□□ 6: □□□□□ □□□□□

6.1. □□□ □□□□ □□ □□□ □□□□ □ □□□

- □□ : □□□ □□□ □□ □□□□ □□□ □□ □□□ □□. □□□□□ □□□□ □□ □□□□ □□□□□□.
- □□ □□ : Wear recommended personal protective equipment.
- □□ : Ventilate spillage area. Evacuate unnecessary personnel. □□ □ □□□ □□□ □□□□.
- □□ □□ : Do not attempt to take action without suitable protective equipment. □□□ □□ □□□□ □□□□□. □□ □□□ □□□ □□ 8: "□□□□ □ □□□□□" □□□□□□.
- □□ : Evacuate unnecessary personnel.

6.2. □□□ □□□□ □□ □□□ □□□□

□□□□ □□□□ □□□.

6.3. □□ □□ □□ □□

- : Using a clean shovel, put the material in a dry container and cover without compressing it.
- □□ : Mechanically recover the product. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.
- □□ □□□□ : Dispose of materials or solid residues at an authorized site.

6.4. □□ □□ □□

For further information refer to section 13.

□□ 7: □□ □ □□□□

7.1. □□□□□□

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- : Ensure good ventilation of the work station. □□ □ □□□ □□□ □□□□. Do not breathe vapours. □□ □□□□ □□□□□.
- □□ : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. □□ □□ □ □□□ □□□ □□□□□. □ □□□ □□□ □□□ □□□, □□□□ □□ □□ □□□. Always wash hands after handling the product.

7.2. □□□□ □□□ □□□ □□□ □□ □□

- □□ : Keep in a cool, well-ventilated place away from heat.
- □□ : □□□ □ □□ □□□□□. □□□ □□□ □□□□□.
- : Store always product in container of same material as original container.

7.3. □□ □□ □□

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□□ 8: □□□□ □ □□□□□

8.1. □□ □□ □□

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BISMUTH TRICHLORIDE EXTRA PURE

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□□ : 4.75 g/cm³
□□ : □□□□
20°C □□□□ □□ □□ □□ : □□□□
Particle size : □□□□

9.2. □□ □□ □□□□

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□□ 10: □□□ □□□□

10.1. □□□

The product is non-reactive under normal conditions of use, storage and transport.

10.2. □□□ □□□

Stable under normal conditions.

10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

10.4. □□□ □□□

Air contact. □□□□. Moisture. Water, humidity.

10.5. □□□ □□□

□□ □□

10.6. □□□ □□□□ □□□□

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

□□ 11: □□□ □□ □□

11.1. □□ (EC) No 1272/2008 □□□□, □□□ □□□ □□ □□

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BISMUTH TRICHLORIDE EXTRA PURE (7787-60-2)

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11.2. □□ □□ □□

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BISMUTH TRICHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

□□ 12: □□□ □□□ □□

12.1. □□

□□□ - □□ : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
□□ □□□□ □□□ : □□□□ □□
□□ □□□□ □□□ : □□□□ □□

12.2. □□□ □ □□□

BISMUTH TRICHLORIDE EXTRA PURE (7787-60-2)	
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12.3. □□ □□□

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12.4. □□ □□□

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12.5. PBT □ vPvB □□ □□

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12.6. □□□ □□ □□

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12.7. □□ □□ □□

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□□ 13: □□□ □□□□

13.1. □□□ □□□

□□ □□(□□□) : Disposal must be done according to official regulations.
□□□ □□□ : Dispose of contents/container in accordance with licensed collector's sorting instructions.
□□ □□ □□ □□ : Disposal must be done according to official regulations.
□□/□□ □□ □□□□ : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
□□ □□ : Do not re-use empty containers.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID □□ □□

14.1. UN □□ □□ ID □□

□□ □□□□ □□□□

14.2. UN □□ □□□

□□ □□□ (ADR) : Not regulated
□□ □□□ (IMDG) : Not regulated
□□ □□□ (IATA) : Not regulated
□□ □□□ (ADN) : Not regulated
□□ □□□ (RID) : Not regulated

14.3. □□□□□ □□□ □□

ADR
□□□□□ □□□ □□ (ADR) : Not regulated

BISMUTH TRICHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

IMDG

□□□□□ □□□ □□ (IMDG) : Not regulated

IATA

□□□□□ □□□ □□ (IATA) : Not regulated

ADN

□□□□□ □□□ □□ (ADN) : Not regulated

RID

□□□□□ □□□ □□ (RID) : Not regulated

14.4. □□□□

□□ □□ (ADR) : Not regulated

□□ □□ (IMDG) : Not regulated

□□ □□ (IATA) : Not regulated

□□ □□ (ADN) : Not regulated

□□ □□ (RID) : Not regulated

14.5. □□ □□□

□□ □□ □□□□ : □□ □□ □□ □□

14.6. □□□□ □□ □□ □□□□

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Not regulated

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Not regulated

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Not regulated

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Not regulated

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Not regulated

14.7. □□□□□□ (IMO) □□ □□ □□ □□

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□□ 15: □□ □□□□

15.1. □□, □□ □□□□ □□□□ □□ □□□□ □□ □□ □□/□□

EU □□

REACH □□□ XVII (□□ □□)

REACH □□□ XVII □□□□ □□

REACH □□□ XIV (□□ □□)

REACH □□□ XIV (□□ □□) □□□□ □□

REACH □□ □□ □□ (SVHC)

REACH □□ □□ □□ □□□□ □□

PIC □□ (□□□□□□)

PIC □□□ □□□□ □□ (□□ EU 649/2012)

BISMUTH TRICHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

POP □□ (□□□ □□ □□□□)

POP □□□ □□□□ □□ (□□ EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

□□□□ □□(428/2009)

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

□□ □□□□ □□ (2019/1148)

Not listed on the Explosives Precursors list (EU)

□□ □□□□ □□ (273/2004)

Not listed on the Drug Precursors list (EU)

□□ □□

□□

WGK : WGK 3, □□ □□ □□□ (Classification according to AwSV).

□□□□

SZW-lijst van kankerverwekkende stoffen : BISMUTH TRICHLORIDE □(□) □□□ □□□□□

SZW-lijst van mutagene stoffen : BISMUTH TRICHLORIDE □(□) □□□ □□□□□

SZW-lijst van reprotoxische stoffen – Borstvoeding : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Ontwikkeling : □□□ □□□□ □□□□□.

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: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).

Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).

The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).

Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).

Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).

Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).

The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).

Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).

ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o L. 2023, item 891)

15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

□□ 16: □ □□ □□□□

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ACGIH	American Conference of Government Industrial Hygienists
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BISMUTH TRICHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ □ □□□□:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	□□ □□ □
BOD	Biochemical oxygen demand (BOD)
CAS □□	□□□□ □□ □□ □□(CAS)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	□□□ □□ □□□
CSA	□□ □□ □□□ □□
DMEL	Derived Minimal Effect level
DNEL	□□ □□□ □□
EC □□	□□ □□□ □□
EC50	Median effective concentration
ED	□□□ □□□□
EN	□□ □□
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	□□□ □□ □□
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	□□ □□□ □□
PPE	□□ □□□
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	□□□□□□□□
STP	Sewage treatment plant

BISMUTH TRICHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ □ □□□□:	
TF	□□□ □□
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
COV	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	□□ □□ □□□

H-□□ □ EUH-□□ □□:	
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H315	□□□ □□□ □□□.
H319	□□ □□ □□□ □□□.

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