

# SAFETY DATA SHEET

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# **SECTION 1. IDENTIFICATION**

Product Identifier: (2N5) 99.5% Boron Trichloride Dimethyloctylamine Complex

Product Code: BO-OMX-025

CAS Number: 34762-90-8

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551

Fax: +1 310-208-0351

Emergency telephone number:

+1 800-424-9300

# **SECTION 2. HAZARDS IDENTIFICATION**

Emergency overview See below for product details



Signal Word: Warning Hazard statements

H373 May cause damage to the lung and the digestive system through prolonged or repeated exposure. Route of exposure: Inhalative.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Acute health effects

May be harmful if swallowed. Causes eye and skin irritation. Irritating to respiratory system. May cause allergic reaction. May decompose to irritating or corrosive components on exposure to water or high heat.

Chronic health effects

Prolonged or repeated contact may irritate the skin, causing dermatitis.

Signs/Symptoms of exposure

Irritation

Routes of exposure/entry

Skin Contact, Inhalation, Eye Contact

Target organs

Eyes, Gastrointestinal tract, Respiratory tract, Skin

Medical conditions aggravated by exposure

Pre-existing skin problems may be aggravated by prolonged or repeated contact.

Carcinogenic status

Not listed or regulated by IARC, NTP, OSHA, or ACGIH.

Reproductive effects

None Expected

Hazardous Decomposition Products:

Fumes, carbon dioxide, carbon monoxide, acrid smoke, hydrogen chloride

Conditions to avoid:

High heat, strong oxidizers

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Boron Trichloride Amine Complex (Boron Trichloride Dimethyloctylamine Complex)

Formula: BCl3C10H23N Cas No.: 34762-90-8 Mol. Weight: 274.47

# **SECTION 4. FIRST AID MEASURES**

Description of first aid measures

If irritation or other symptoms (as noted above) occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

If inhaled:

Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

In case of skin contact:

Immediately wash with soap and water; rinse thoroughly.

Seek immediate medical advice.

In case of eye contact:

Rinse opened eye for several minutes under running water. Consult a physician.

If swallowed:

Seek medical treatment.

# **SECTION 5. FIREFIGHTING MEASURES**

NFPA flammability class: IIIB

Flash point: >200 °F (>93.3 °C) Closed Cup

Explosive range: LEL Not Available UEL Not Available

Fire and explosive properties

Product is not considered a fire hazard, but will burn if ignited.

# Extinguishing media

NFPA Class IIIB (Combustible liquid): Use water sp

ray, ABC dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures. Fire fighting instructions

Wear self-contained breathing apparatus (SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

Unusual fire/explosion hazards

Irritating or toxic substances will be emitted upon burning, combustion or decomposition.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

#### Containment techinques

Contain by diking with sand, earth or other non-combustible material. If spilled in an enclosed area, ventilate. Do not flush liquid into public sewer, water systems or surface waters.

# Clean-up techniques

Wear proper personal protective clothing and equipment. Do not flush liquid into public sewer, water systems or surface waters. Eliminate ignition sources. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal.

Evacuation instructions Not Applicable

# **SECTION 7. HANDLING AND STORAGE**

Avoid contact with skin, eyes, and clothing. Avoid inhalation of vapors. Wash thouroughly after handling.

Keep in closed or covered containers when not in use. Store in a cool, dry place with adequate

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ventilation

Use and store only with adequate ventilation or use respiratory protection.

#### Respiratory

If vapors are present, use a NIOSH/MSHA approved positive pressure, supplier air respirator.

### Eye protection

If potential for splashing is present, splash goggles or a full-face shield should be worn.

# Skin protection

Do not allow any skin contact. If potential for skin contact is present, impervious protection clothing should be worn. Neoprene coated fabric is recommended for this application.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Colorless to yellow

Melting Point: 25-28°C Water by KF: 0.1% max Free DMOA: 0.8% max

pH: 3.5-6

Odor: Very slight

Vapor Density: Heavier than air Vapor Pressure: <1mm Hg at 25°C

Solubility in water: Slight Specific Gravity: 1.1

# **SECTION 10. STABILITY AND REACTIVITY**

Stable, will react with oxidizing agents

Hazardous Polymerization: Will not autopolymerize

#### Conditions to avoid

Avoid exposure to moisture, ignition sources and elevated temperatures.

# Incompatibility with other materials

Avoid contact with strong oxidizing agents.

### Hazardous decomposition products

Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen chloride. Boron trichloride. Oxides of nitrogen.

# Additional reactivity / stability information

None

# **SECTION 11. TOXICOLOGICAL INFORMATION**

LD50 Oral: >5,000 mg/kg LC50 Inhalation: >2,500 mg/kg Exposure Limits: TLV: Not established PEL: Not established

# **SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity** 

Acquatic toxicity: No data available

Persistence and degradability No data available

Behavior in environmental systems: Bioaccumulative potential No data available

Mobility in soil: No data available

Additional ecological information:

General notes: Do not allow material to be released to the environment without official permits.

Results of PBT and vPvB assessment

PBT: N/A vPvB: N/A

Other adverse effects No data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

Remove contaminated materials for disposal at a permitted facility using registered transporters.

# **SECTION 14. TRANSPORT INFORMATION**

Not hazardous for tranportation

Department of transportation 49CFR172.101-102

Classification: Not hazardous DOT shipping name: Not regulated

#### **SECTION 15. REGULATORY INFORMATION**

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

Product related hazard informations:

Observe the general safety regulations when handling chemicals

# National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

All components of this product are listed on the Canadian Domestic Substances List (DSL). Information about limitation of use: For use only by technically qualified individuals.

Other regulations, limitations and prohibitive regulations

REACH - Pre-registered substances Substance is listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.