

1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description TRIMETHYLAMINE BORANE (D3, 98%)

Cambridge Isotope Laboratories, Inc. 50 Frontage Rd ANDOVER, MA 01810 USA

E-mail cilsales@isotope.com Web Site www.isotope.com

Phone Numbers

Emergency Contact Chemtrec

Emergency Phone 1-800-424-9300 (24 hours)

Customer Service

Phone

1-800-322-1174 (8:30-5:30 EST)

Transportation 1-202-483-7616 (24 hours)

2 HAZARDS IDENTIFICATION

OSHA Hazards

Flammable solid, Irritant

GHS Classification

Flammable solids (Category 1)
Skin irritation (Category 2)
Eye irritation (Category 2)
Specific Target Organ Toxicity - Single exposure (Category 3)

GHS Label Information

Signal Word Danger

Hazards Identification

Flame

Exclamation mark

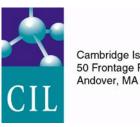
Hazard Statement(s)

Flammable solid.

Causes skin irritation.



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MATERIAL SAFETY DATA SHEET

Causes serious eye irritation.

Precautionary Statement(s)

Keep away from heat/sparks/open flames/hot surfaces- No smoking.

Avoid breathing dust/fume/gas/mist/vapours/spray.

IF IN EYES: Rinse with water for several minutes. Remove contact lenses.

HMIS Ratings

3 **Physical** Flammability 3 Health 2

NFPA Codes

Fire 3 Health 2 Reactivity 3

Potential Health Effects

Causes eye irritation. Eves Ingestion May be harmful if swallowed.

May be harmful if inhaled. Causes respiratory tract irritation. Inhalation

Skin May be harmful if absorbed through the skin. Causes skin irritation.

COMPOSITION / INFORMATION ON INGREDIENTS 3

Composition / Information on Ingredients

Synonyms Borane trimethylamine complex

Chemical Formula D3BN(CH3)3

Molecular Weight 75.96

CAS No. 75-22-9 (unlabeled)

EC No. 200-850-4

FIRST AID MEASURES

First Aid Measures

Flush eye with water for 15 minutes. Get medical attention. Eyes

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth Ingestion

with water. Consult a physician.

If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a Inhalation

physician.

Skin Wash with soap and plenty of water. Consult a physician.



Additional Information

Move out of dangerous area. Consult a physician and show this safety data sheet.

5 FIRE FIGHTING MEASURE

Fire Fighting Measures

Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Fire Fighting Equipment

Wear self contained breathing apparatus for fire fighting if necessary.

Fire Fighting Procedures

Use water spray to cool unopened containers.

6 ACCIDENTAL RELEASE MEASURES

Accidental Release Measures

Personal Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

Precautions Ensure adequate ventilation. Avoid breathing dust.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleanup Sweep up and shovel. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Precautions for Safe Handling

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate

exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for Safe Storage

Storage Store at room temperature away from light and moisture.



8 EXPOSURE CONTROL / PERSONAL PROTECTION

Personal Protecton

Work Hygienic

Eyes - Face Wear safety glasses with side shields (or goggles) and a face shield.

Skin Choose body protection according to the amount and concentration of the dangerous substance at

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks

the work place.

Respiratory When appropriate, use NIOSH/CEN approved respirator.

Protective Clothing Wear suitable protective clothing and gloves.

Practices and at the end of workday.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Form Crystalline

Color White

pH No data available

Melting Point 92 - 94 °C (198 - 201 °F)

Boiling Point 172 °C (198 °F)
Flashpoint No data available
Lower Explosion No data available

Limit

Upper Explosion No data available

Limit

Solubility in Water No data available
Auto Ignition No data available

Temperature

10 STABILITY AND REACTIVITY

Stability and Reactivity

Chemical Stability Stable if stored under recommended conditions.

Conditions to Avoid Heat, flames and sparks. Extremes of temperature and direct sunlight.



Hazardous decomposition products

Under fire conditions: Carbon oxides, nitrogen oxides, Borane/boron oxides

Materials to avoid acids, Acid chlorides, Acid anhydrides, Oxizizing agents, Alcohols

11 TOXICOLOGICAL INFORMATION

Acute Toxicity

Serious No data available

Damage/Eye Irritation

Skin No data available

Corrosion/Irritation

Inhalation No data available

Respiratory or Skin Sensitization

Not available

Germ Cell Genotoxicity in vitro - mouse - Ascites tumor Mutagenicity DNA inhibition, Other mutation test systems

IARC No component of this product present at levels greater than or equal to 0.1% is identifiable as

probable, possible, or confirmed human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identifiable as a

carcinogen or potential carcinogen by ACGIH.

NTP No component of this product present at levels greater than or equal to 0.1% is identifiable as a

known or anticipated carcinogen by NTP.

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

Reproductive

Not available

Toxicity

Specific Target Organ Toxicity

Single Exposure Inhalation - May cause respiratory irritation

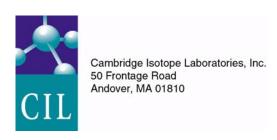
Repeated Exposure No data available

Signs and Symptoms of Exposure

The chemical, physical, and toxicological properties have not been thoroughly investigated.

12 ECOLOGICAL INFORMATION

Toxicity



Persistance and Degradability Not available

Bioaccumulative

Potential

Not available

Mobility in Soil

Not available

PBT and vPvB

Assessment

Not available

Other Adverse

Effects

Not available

13 DISPOSAL CONSIDERATIONS

Disposal Considerations

Product Disposal Waste materials should be disposed of under conditions which meet Federal, State, and Local

environmental control regulations.

14 TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG

UN Number 1325

Prop. Ship. Name Flammable solids, organic, n.o.s., (Trimethylamine-borane (1:1))

Hazard Class 4.1
Packing Group II
Marine Pollutant No
Poison Inhalation No

Hazard

15 REGULATORY INFORMATION

Regulatory Information

Flammable solid, Irritant

SARA

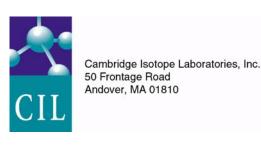
Sara 302 No chemicals in this material are subject to the reporting requirements.

Component

Sara 313 No chemicals in this material are subject to the reporting requirements.

Component

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MATERIAL SAFETY DATA SHEET

SARA 311/312 Hazards

Υ Fire (Y/N)

Acute (Y/N) Υ

STATE REGULATIONS

Massachusetts

No

Right to Know

Pennsylvania Right Yes

to Know

New Jersey Right

Yes

to Know

California Proposition 65 This product does not contain any chemicals known to State of California to cause cancer, birth

defects, or any other reproductive harm.

Canada

DSL Status This product contains the following components listed on the Canadian NDSL list. All other

components are on the Canadian DSL list. Aminophenazone (CAS-No. 58-15-1)

ΕU

Flammable. Harmful. Hazard

Safety Statements

Keep away from ... (incompatible materials to be indicated by the manufacturer).

Keep away from sources of ignition - No smoking.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

Risk Statements

Highly flammable.

Irritating to eyes, respiratory system and skin.

16 **OTHER INFORMATION**

Additional MSDS Information

This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the

corresponding unlabeled compound.

Approved On 05/19/11

Version Number