Material Safety Data Sheet

Revision date: 25-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Product name: TERBIUM BROMIDE

Supplier: ProChem, Inc. 826 Roosevelt Rd. Rockford IL 61109 (800) 795-8788

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components TERBIUM BROMIDE CAS Number

Weight % 90 - 100%

ACGIH Exposure Limits:

OSHA Exposure Limits: None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause skin irritation and/or dermatitis

Principle routes of exposure: Skin

Inhalation: May cause irritation of respiratory tract

Ingestion: May be harmful if swallowed.

Skin contact: May cause allergic skin reaction

Eve contact: Avoid contact with eyes

Statements of hazard MAY CAUSE ALLERGIC SKIN REACTION.

Statement of Spill or Leak - ANSI Label Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water and seek medical advice

Ingestion: Do not induce vomiting without medical advice.

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

Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Specific hazards: Unusual hazards:

Special protective equipment for firefighters:

Specific methods:

Flash point: Autoignition temperature:

NFPA rating:

NFPA Health: NFPA Flammability:

NFPA Reactivity:

1

1

Use dry chemical, CO2, water spray or "alcohol" foam

Burning produces irritant fumes.

None known

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

Water mist may be used to cool closed containers.

Not determined Not determined

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Environmental precautions: Methods for cleaning up:

Use personal protective equipment. Prevent product from entering drains.

Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage:

ROOM TEMPERATURE

Handling:

Use only in area provided with appropriate exhaust

ventilation.

Wear personal protective equipment.

Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Breathing apparatus only if aerosol or dust is formed.

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against

this potential effect.

Safe handling advice:

Incompatible products:

Eye protection: Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

Formula:

Molecular weight:

Melting point/range: Boiling point/range:

Density:

Vapor pressure: Evaporation rate: Vapor density:

Br3Th

398.6374

No data available at this time. No Data available at this time.

No data available

No data available No data available No data available

Solubility (in water):

Flash point:

Autoignition temperature:

No data available Not determined Not determined

10. STABILITY AND REACTIVITY

Stability:

Polymerization:

Hazardous decomposition products:

Materials to avoid:

Conditions to avoid:

Stable under recommended storage conditions.

None under normal processing.

Bromine

Strong oxidising agents

Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute toxicity

Components

RTECS Number:

Not Available

Selected LD50s and LC50s

Not Determined

Chronic toxicity:

TERBIUM BROMIDE

Chronic exposure may cause nausea and vomiting, higher exposure causes

unconsciousness.

Local effects:

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomitina.

Specific effects:

May include moderate to severe erythema (redness) and moderate edema (raised

skin), nausea, vomiting, headache.

Primary irritation:

Carcinogenic effects: Mutagenic effects:

Reproductive toxicity:

No data is available on the product itself.

No data is available on the product itself. No data is available on the product itself.

No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Mobility:

Bioaccumulation: **Ecotoxicity effects:**

Aquatic toxicity:

No data available

No data available No data available

May cause long-term adverse effects in the aquatic

environment.

Components

U.S. DOT - Appendix B -

Marine Pollutan

Not Listed

U.S. DOT - Appendix B -

Severe Marine Pollutants

Not Listed

United Kingdom - The Red

Ecotoxicity - Fish Species

List:

Not Listed

Components

Germany VCI (WGK)

World Health Organization (WHO) - Drinking Water

Ecotoxicity - Microtox Data

Data

TERBIUM BROMIDE

TERBIUM BROMIDE

Not Listed

Not Listed

Not Listed

Components

Ecotoxicity - Freshwater

Algae Data

Ecotoxicity - Water Flea

Data

TERBIUM BROMIDE Not Listed

Not Listed

Not Listed

Components

EPA - ATSDR Priority List

EPA - HPV Challenge

California - Priority Toxic

TERBIUM BROMIDE

Not Listed

Program Chemical List Not Listed

Pollutants

Not Listed

Components

TERBIUM BROMIDE

California - Priority Toxic Pollutants

Not Listed

California - Priority Toxic Pollutants

Not Listed

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished

with this material may be hazardous. Do not re-use empty containers

Contaminated packaging:

14. TRANSPORT INFORMATION

UN/Id No:

Not regulated

DOT:

Proper shipping name:

Not Regulated

Components

U.S. DOT - Appendix A Table 1 - Reportable Quantities

TERBIUM BROMIDE

Not Listed

TDG (Canada):

WHMIS hazard class:

Non-controlled

IMDG/IMO

IMDG - Hazard Classifications

Not Applicable

Components

U.S. DOT - Appendix B - Marine Pollutan U.S. DOT - Appendix B - Severe Marine

Pollutants

TERBIUM BROMIDE

Not Listed

Not Listed

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components

TERBIUM BROMIDE

Inventory - United States TSCA - Sect. 8(b)

Not Listed

Canada DSL Inventory List -

Not Listed

U.S. regulations:

Components

California Proposition 65 Massachusetts Right to New Jersey Right to

Pennsylvania Right to Know List:

TERBIUM BROMIDE

Not Listed

Know List: Not Listed

Know List: Not Listed

Not Listed

Components

Florida substance List:

Rhode Island Right to Know List:

Illinois - Toxic Air Contaminants

Connecticut - Hazardous Air

Pollutants

TERBIUM BROMIDE

Not Listed

Not Listed

Not Listed

Not Listed

Components

SARA 313 Emission

reporting/Toxic Release 302 Extremely Haz

CERCLA/SARA - Section NTP:

IARC:

TERBIUM BROMIDE

of Chemicals Not Listed

Not Listed

None

None

SARA 313 Notification:

The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community

Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in

Washington, DC or Alaska).

State Notification:

The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet