2(3H)-Benzothiazolethione, sodium salt (1:1) (cas 2492-26-4) MSDS

Material Safety Data Sheet chemusa

Section I. Chemical Product and Company Identification

NACAP?
Product Name/ Code
Trade Name
2492-26-4
CAS#
Supplier R.T. VANDERBILT COMPANY, INC.
In Case of Call: (203) 853-1400
30 WINFIELD STREET Emergency
NORWALK, CT 06855
Sodium 2-mercaptopbenzothiazole
Synonym
2(3H)-Benzothiazolethione, sodium salt
Chemical name
Not available.
Chemical Family
Chemical Formula C7H5NS2.Na

Industrial applications: Corrosion inhibitor.
Material Uses
TSCA 8(b) inventory: NACAP?
TSCA Status

Section II. Composition and Information on Ingredients

Name CAS # % by Weight
sodium 2-mercaptopbenzothiazole 2492-26-4 49-51
water 7732-18-5 49-51

Section III. Hazards Identification

Light amber liquid. Corrosive. Causes burns to the eyes and skin. Inhalation of mist or vapor is hazardous.
Emergency Overview

Section IV. First Aid Measures
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes,
Eye Contact
keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as
Skin Contact
possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got
on the victim's exposed skin, such as the hands : Gently and thoroughly wash the contaminated skin with
running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin.
Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Allow the victim to rest in a well ventilated area. Seek immediate medical attention

**Inhalation**

Do not induce vomiting. Immediately give two glasses of water, a little at a time. Never give anything by mouth to an unconscious person. Call a physician. If vomiting occurs spontaneously, lower head below waist to prevent fluid from entering the lungs.

**Section V. Fire and Explosion Data**

**Non-flammable.**

**Flammability of the Product**

Not applicable.

**Autoignition Temperature**

Not applicable.

**Flash Point**

Not applicable.

**Flammable Limits**

Carbon oxides (CO, CO2) nitrogen oxides (NO, NO2...) sulfur oxides (SO2, SO3...), small amounts of aromatic and aliphatic hydrocarbons.

**Products of Combustion**

**Explosion Hazards in Presence**

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

**Hazards of Various Substances**

Not applicable.

**Fire Fighting Media and Instructions**

Not available.

**Special Remarks on Fire Hazards**

Special Remarks on Explosion Not available.

**Hazards**

Section VI. Accidental Release Measures

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

**Small Spill**

Corrosive liquid. Absorb with an inert material and put the spilled material in an appropriate waste disposal container.

**Large Spill**

Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Prevent entry into sewers, basements or confined areas; dike if needed.

Section VII. Handling and Storage

Keep container closed when not in use and upright to prevent leakage. Prevent from freezing. Avoid storage in aluminum or zinc containers. The alkalinity of this solution may cause a reaction resulting in container...
The product is stable.

Stability

Not available.

Section VIII. Exposure Controls/Personal Protection

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Splash goggles. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Full Personal Protection suit.

Not available.

TLV / PEL

Continued on Next

Section IX. Physical and Chemical Properties

Amber. (Light.) Liquid.

Appearance

Not applicable.

Molecular Weight

>11.5 [Basic.]

pH (1% soln/water)

100??C (212??F)

Boiling/Condensation Point

-6??C (21.2??F)

Melting Point

1.27 (Water = 1)

Specific Gravity

Not available.

Density

24 mm of Hg (@ 20??C)

Vapor Pressure

Not available.

Vapor Density

50% (v/v)

Volatile

Not available.

Odor

Not available.

Evaporation Rate

Not available.

Viscosity

The product is more soluble in water.

Water/Oil Dist. Coeff.

Soluble in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.

Solubility

Section X. Stability and Reactivity Data

The product is stable.

Stability

Not available.
Instability Temperature
Not available.
Conditions of Instability

Contact with strong mineral acids or acid fumes will liberate heat. Reacts vigorously with strong oxidizing
Incompatibility with Various agents such as hydrogen peroxide, permanganates and perchlorates. Contact with these materials can result
Substances in intense heat, boiling, flame development or explosion depending on the amount.
Contact with aluminum or zinc can cause corrosion of these metals.
Corrosivity

Special Remarks on Reactivity Not available.

Section XI. Toxicological Information

Absorbed through skin. Eye contact. Inhalation. Ingestion
Routes of Entry

Acute oral toxicity (LD50): 5200 mg/kg [Rat].
Toxicity to Animals
Acute dermal toxicity (LD50): 5010 mg/kg [Rabbit]

Special Remarks on Toxicity to Rabbit patch tests showed visible tissue destruction 4, 24 and 48 hours after application. The material was considered corrosive to the skin under the conditions of the test.

Animals

Acute Effects
Corrosive to eyes.
Eye Contact

Corrosive to skin.
Skin Contact

No data available. Similar products have been found to cause allergic reactions in sensitive individuals.
Sensitization

Harmful if swallowed.
Ingestion

Harmful if inhaled.
Inhalation

Continued on Next
Not available.
Remarks

CARCINOGENIC EFFECTS: See remarks.
Chronic Effects on MUTAGENIC EFFECTS Not available.

* Humans
DEVELOPMENTAL TOXICITY Not available.
* REPRODUCTIVE TOXICITY See remarks.

In NTP studies, MBT in corn oil was force fed through a stomach tube to rats and mice for two years. An Remarks increased incidence of tumors in a number of tissues was seen in rats. No increase in the incidence of tumors was observed in mice. The strength of the data was evaluated "some", "equivocal", "no" or "inadequate" evidence of carcinogenicity. Because only a limited response occurred, NTP interpreted these
studies as tumor response (e.g.: no effect in mice; some effect in rats) and other concerns about the conduct of these studies make it difficult to clearly assess the significance of the results to those who work with MBT. We recommend that worker exposure to MBT should be minimized.

Mice were given MBT at a dosage of 464 mg/kg by subcutaneous injection on days 6 through 15 of gestation. In two strains, increased incidences of fetal malformations were noted, but only at maternally toxic doses.

Section XII. Ecological Information

96 hr LC50: 1.3-2.4 mg/l (Rainbow trout) [active ingredient]

Ecotoxicity

Not available.

BOD and CO
Possibly hazardous short term degradation products are not likely. However, long term degradation products of biodegradation may arise.

Not available.

Biodegradability

Not available.

Special Remarks on the Products of Biodegradation

Section XIII. Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Information

Not available.

Waste Stream

Section XIV. Transport Information

CLASS 8: Corrosive liquid.

DOT
CORROSIVE

8

Shipping name: Corrosive liquids, basic, organic, n.o.s. (Sodium 2-mercaptobenzothiazole), 8, UN: 3267 PG: I

Not available.

Remarks

Not available.

Maritime transportation

Continued on Next

Section XV. Other Regulatory Information and Pictograms

Class: Irritating substance.

Classification HCS (USA)

Class: Sensitizing substance.

Class: Corrosive liquid.
TSCA 8(b) inventory: NACAP?
Federal and State Regulations
Not available.
Remarks
National Fire Protection
Hazardous Material Flammability
0
3
Health Hazard
Association (U.S.A.)
Information System
0 3 1
Fire Hazard
(U.S.A.) Reactivity
Health
1
Reactivity
Specific hazard
h
Personal Protection

Other regulatory EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
specifications
CEPA DSL: NACAP?

Australia: NACAP?
China: NACAP?
Japan (MITI): NACAP?
Korea (TCCL): NACAP?
Philippines (RA6969): NACAP?

Protective Clothing
(Pictograms)

Section XVI. Other Information
Not available.
References
Not available.
Other Special Considerations


Information Contact David Bower, Ph.D. (203) 853-1400 ext. 233
Corporate Risk Management

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