Mallinckrodt Material Safety Data

Emergency Phone Number: 314-982-5000

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Mallinckrodt, Inc., Science Products Division, P.O. Box M, Paris, KY 43061.

TRIS(HYDROXYMETHYL)AMINOMETHANE PRODUCT IDENTIFICATION:

Synonyms: 2-Amino-2-(hydroxymethyl)-1,3-propanediol; THAM;

Tris

Formula CAS No.: 77-86-1

Molecular Weight: 121.14

Chemical Formula: H2NC(CH2OH)3

Hazardous Ingredients: Not applicable.

PRECAUTIONARY MEASURES

WARNING! HARMFUL IF SWALLOWED. CAUSES IRRITATION.

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

EMERGENCY/FIRST AID

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. In all cases call a physician. SEE SECTION 5.

DOT Hazard Class: Not Regulated

SECTION 1 Physical Data

Appearance: Transparent, colorless crystals.

Odor: Odorless.

Solubility: 5.5 g/l ml water @ 25°C (77°F) Boiling Point: 219-220°C (426-428°F)

Melting Point: 171-172°C (340-342°F)

Density: No information found.

Vapor Density (Air=1): No information found. Vapor Pressure (mm Hg): No information found.

Evaporation Rate: No information found.

SECTION 2 Fire and Explosion Information

Fire:

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Slight fire hazard when exposed to heat or flame.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 3 Reactivity Data

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Oxides of nitrogen and carbon.

Hazardous Polymerization:

This substance does not polymerize.

Incompatibilities:

Copper, brass, aluminum, and oxidizing agents.

SECTION 4 Leak/Spill Disposal Information

Ventilate the area of the leak or spill. Remove all sources of ignition. Sweep up and place in a bag and hold for waste disposal. Avoid raising dust. Dissolve or mix the material with a combustible solvent and burn in a RCRA approved chemical incinerator equipped with an afterburner and scrubber. Collected waste may be transferred to a closed, preferably metal, container and sent to an approved waste disposal facility.

Ensure compliance with local, state and federal regulations.

SECTION 5 Health Hazard Information

A. EXPOSURE / HEALTH EFFECTS

Inhalation:

May cause irritation to the mucous membranes.

Ingestion

Mild alkali. May cause irritation and reddening to the mucous membranes of the mouth, esophagus, and gastrointestinal tract. Large oral doses may cause weakness, collapse, and coma. Estimated lethal dose: 50 grams.

Skin Contact:

May cause irritation, redness, and pain.

Eye Contact:

May cause irritation, redness, pain, and corneal damage.

Chronic Exposure:

Chronic dermatitis may follow skin contact.

Aggrevation of Pre-existing Conditions:

No information found.

B. FIRST AID

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

If swallowed, induce vomiting immediately by giving two glasses of water, or milk if available and sticking finger down throat. Call a physician immediately. Never give anything by mouth to an unconscious person.

Skin Exposure:

Remove any contaminated clothing. Wash skin with plenty of water for at least 15 minutes. If irritation develops, get medical attention.

Eye Exposure:

Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

C. TOXICITY DATA

(RTECS, 1982)

Oral rat LD50: 5900 mg/kg

SECTION 6 Occupational Control Measures

Airborne Exposure Limits: None established.

Ventilation System:

A local exhaust system which captures the contaminant at its source is recommended to prevent dispersion of the contaminant into the workroom air.

Personal Respirators: (NIOSH Approved)

For conditions of use where exposure to the dust is apparent, a dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eve Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 7 Storage and Special Information

Keep in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage. Isolate from oxidizing materials.

TRISH