Mallinckrodt •

SILVER NITRATE

Hatarial Safaty Data Sheet Emergency Telephone Number 314-982-5000

Mallinckrodt Inc.
Science Products Division
P.O. Box N Paris, Kentucky 40361

Effective Date: 11-14-85

PRODUCT IDENTIFICATION:

Synonyms: Lunar caustic

Hazardous Ingredients: Not applicable. Formula CAS No.: 7761-88-8

Holecular Weight: 169.87

Chemical Formula: AgNO3

PREGAUTIONARY MEASURES

DANGER! MAY BE FATAL IF SWALLOWED. HARNFUL IF INHALED CORROSIVE. CAUSES SEVERE BURNS.

Do not get in eyes, on skin, or on clothing.
Avoid breathing dust.
Keep container closed.
Use with adequate ventilation.
Uses thoroughly after handling.
This substance is classified as a POISON under the Federal Caustic Poison Act.

EMERGENCY/FIRST AID

If swallowed, DO NOT INDUCE VONITING! Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.

In case of contact, immediately flush skin or eyes with plenty of water for at

east 15 minutes il cases call a physician.

DOT Hazard Class: Oxidizer

ECTION 1

Physical Date

Colorless transparent crystals.

: Jobe ... Odorless.

Solubility:

219g/100g water @ 20°C (68°F)

Boiling Point: 444°C (831°F) decomposes.

Helting Point: 212°C (441°F)

Specific Gravity: 4.352

Vapor Dansity (Air-1):4.4

Vapor Pressure (mm Hg): Very low.

Evaporation Rate: No information found.

SECTION 2

Information

Pire:

This oxidizing material can increase the flammability of adjacent combustible materials.

Explosion:

Many reactions may cause explosion. Reacts with summonia to form compounds that are sensitive to mechanical shock.

Fire Extinguishing Hedia:

Use water spray or fog on surrounding combustible materiels. If fire is massive, fight fire upwind and Use any means suitable for extinguishing surrounding fire. from a distance.

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.

Reactivity Data

Stability:

Stable at room temperature in sealed containers. Discolors on exposure to light. Hygroscopic.

Hazardous Decomposition Products:

Oxides of nitrogen upon heating to decomposition.

Hazardous Polymerization:

This substance does not polymerize

Incompatibilities:

Ammonía, alkalies, antímony salts, arsenites, bromides, carbonates, chlorides, iodides, thiocyanates, ferrous salts, phosphates, tannic acid and tartrates.

Leak/Spill Disposal Information SECTION 4

Ventilate area of leak or spill. Clean-up personnel require protective clothing and respiratory protection from dust.

Spills: Cover spill with dry sand, pick up and place in a suitable container for reclamation or disposal in a method that does not generate dust.

Disposal: Whatever cannot be saved for reclamation may \mathfrak{h}_{t^*} disposed in a RCRA approved hazardous waste facility.

Reportable Quantity (RQ)(CWA/CERCIA) : 1 1b.

Ensure compliance with local, state and federal regulations

silver Pitrate

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Ingestion:	Inhalation:	A. Exposure/Health Effects
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Toxie/Poison: Symptoms include pain and burning in the south, blackening of the akin and succus membranes, throst, and abdomen, salivation, voniting of black	An irritant to respiratory tract. May cause sore throat, coughing, shortness of breath. Dust deposits in the lungs may resemble a form of pneumonconiosis.	SECTION 3

material, diarrhea, collapse, shock, coma and doath

May cause local corrosive effects, including skin irritation and pain.

Skin Contact:

Eye Contact:

May cause corresive effects, pain, irritation, and possibly eye damage.

Repeated application or injestion causes a permanent bluish discoloration of the skin, conjunctive, and succus membranes. Repeated inhalation may cause lung disease.

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

Aggravation of Pre-existing Conditions:

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

Inhalation:

Ingustion:

If swellowed, do NOT induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician immediately.

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

TOXICITY DATA (RTECS, 1982)

Eye Exposure:

Skin Exposure:

Oral mouse LD50: 50 mg/kg. Irritation data: eye rabbit 1 mg severe. Mutation references cited. aproductive effects references cited

Occupational Control Messures

SECTION 6

Airborne Exposure Limits:

-OSHA Permissible Exposure Limit (PEL):
10 ug (Ag)/m³ (TVA).
-ACCH Threshold Limit Value (TLY):
10 ug (Ag)/m³ (TVA).

Ventilation System:

A system of local and/or general exhaust is recommended to keep amployee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACCIH document, "Industrial Ventilation, A Hanual of Recommended Practices", most recent edition, for details.

Personal Respirators (NIOSH Approved)

If the TLV is exceeded, a dust/mist respirator with chemical goggles may be worn, in general, up to ten times the TLV. Consult respirator supplier for limitations. Alternatively, a supplied air full facepiece respirator or sirlined hood may be worn.

Skin Protection:

Wear impervious protective clothing, including boots gloves, lab coat, apron or coveralls to prevent skin contact.

Protection:

Ey

any

this material. Haintain eye wash fountain and quick-drench facilities in work area. 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

Storage and Special Information SECTION 7

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Protect from light. Separate from combustible organic or niher readily oxidizable materials.

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