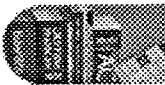




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Material Safety Data Sheet Mercury (II) Nitrate Monohydrate

ACC# 13831

Section 1 - Chemical Product and Company Identification

MSDS Name: Mercury (II) Nitrate Monohydrate
Catalog Numbers: S80076, M168 100, M168 500, M168-100, M168-500, M168100, M168500, S80076-1, S800761
Synonyms: Nictric acid mercury salt monohydrate; Mercuric nitrate monohydrate
Company Identification:
 Fisher Scientific
 1 Reagent Lane
 Fairlawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7783-34-8	Mercury (II) nitrate monohydrate	100.0	unlisted

Hazard Symbols: T+
Risk Phrases: 26/27/28 33

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white to pale yellow. **Danger!** Corrosive. Highly toxic. Oxidizer. May cause kidney damage. Poison! May cause central nervous system effects. Causes eye and skin burns. Causes digestive and respiratory tract burns. May cause reproductive and fetal effects.

Target Organs: Kidneys, central nervous system.

Potential Health Effects

Eye: Contact may cause severe eye irritation and possible eye damage.

Skin: Causes skin burns. May be absorbed through the skin in harmful amounts.

Ingestion: May be fatal if swallowed. Poison by ingestion. Causes gastrointestinal tract burns. May cause kidney damage. May cause methemoglobinemia, cyanosis, convulsions, and death.

Methemoglobinemia is characterized by dizziness, drowsiness, headache, breath shortness, cyanosis with bluish skin, rapid heart rate and chocolate-brown colored blood. May cause adverse nervous system effects and possible damage. The effects may be delayed.

Inhalation: May cause methemoglobinemia, cyanosis, convulsions, tachycardia, dyspnea, and death. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. May cause effects similar to those described for ingestion.

Chronic: Not available.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Destroy contaminated shoes.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

Antidote: The use of Dimercaprol or BAL (British Anti-Lewisite) as a chelating agent should be determined by qualified medical personnel.

Section 5 - Firefighting Measures

General Information: Wear appropriate protective clothing to prevent

contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

Oxidizer. Greatly increases the burning rate of combustible materials.

Extinguishing Media: For small fires, use water spray, dry chemical, carbon dioxide or chemical foam. In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Autoignition Temperature: Not available.

Flash Point: Not available.(estimated) Health: ; Flammability: ;

Reactivity: Explosion Limits, Lower: Not available. Upper: Not available.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Do not ingest or inhale. Store protected from light. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate general or local, explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Mercury (II) nitrate monohydrate	none listed	none listed	none listed

OSHA Vacated PELs: Mercury (II) nitrate monohydrate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Solid
Appearance: white to pale yellow
Odor: odorless
pH: Not applicable.
Vapor Pressure: Not applicable.
Vapor Density: Not available.
Evaporation Rate:
Viscosity: Not applicable.
Boiling Point: Not available.
Freezing/Melting Point: 174 deg F
Decomposition Temperature: Not available.
Solubility: Soluble in water.
Specific Gravity/Density: 4.3
Molecular Formula: Hg(NO₃)₂.H₂O
Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: High temperatures, incompatible materials, light.
Incompatibilities with Other Materials: Reducing agents, cyanides, thiocyanates, isothiocyanates, hypophosphites. May discolor on exposure to light.
Hazardous Decomposition Products: Nitrogen oxides, mercury/mercury oxides.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:
CAS# 7783-34-8 unlisted.
LD50/LC50:
Not available.

Carcinogenicity:
CAS# 7783-34-8:
ACGIH: as Hg: A4-not classifiable as a human carcinogen (listed as MERCURY).
IARC: Group 3 carcinogen (listed as MERCURY, ARYL AND INORGANIC COMPOUNDS).
Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.

Neurotoxicity: No information available.

Mutagenicity: Please refer to RTCES# OV7415000 for specific information.

Other Studies: None.

Section 12 - Ecological Information

Ecotoxicity: No information available.

Environmental Fate: No information reported.

Physical/Chemical: No information available.

Other: None.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

RCRA D-Series Maximum Concentration of Contaminants: None listed.

RCRA D-Series Chronic Toxicity Reference Levels: None listed.

RCRA F-Series: None listed.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Ca T
Shipping Name:	MERCURIC NITRATE	No information available.	No information available.	No information available. MERCURIC NITRATE	
Hazard Class:	6.1			5.1(6.1)(9.2)	
UN Number:	UN1625			UN1625	
Packing Group:	II			II	

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 7783-34-8 is not listed on the TSCA inventory. It is for research and development use only.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA**Section 302 (RQ)**

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7783-34-8: acute, chronic, flammable.

Section 313

This material contains Mercury (II) nitrate monohydrate (listed as MERCURY), 100 0%, (CAS# 7783-34-8) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7783-34-8 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

WARNING: This product contains Mercury (II) nitrate monohydrate, listed as 'MERCURY', a chemical known to the state of California to cause birth defects or other reproductive harm. California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations**European Labeling in Accordance with EC Directives****Hazard Symbols:**

T+

Risk Phrases:

R 26/27/28 Very toxic by inhalation, in contact with skin and if swallowed. R 33 Danger of cumulative effects.

Safety Phrases:

S 1/2 Keep locked up and out of reach of children. S 13 Keep away from food, drink and animal feeding stuffs. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 28A After contact with skin, wash immediately with plenty of water.

WGK (Water Danger/Protection)

CAS# 7783-34-8: No information available.

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

This product has a WHMIS classification of C, D1A, D2A.

CAS# 7783-34-8 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 7783-34-8 (listed as mercury): OEL-ARAB Republic of Egypt:TWA

0.0
 5 mg/m³ OEL-AUSTRALIA:TWA 0.1 mg/m³;Skin OEL-BELGIUM:TWA 0.1 mg/m³;S
 kin OEL-FINLAND:TWA 0.05 mg/m³ OEL-FRANCE:TWA 0.05 mg/m³;Skin
 (vapor
) OEL-FRANCE:TWA 0.1 mg/m³;Skin OEL-HUNGARY:TWA 0.02
 mg/m³;STEL 0.04
 mg/m³ OEL-POLAND:TWA 0.05 mg/m³ OEL-SWEDEN:TWA 0.05 mg/m³
 (vapor)
 OEL-SWITZERLAND:TWA 0.005 ppm (0.05 mg/m³);Skin (vapor)
 OEL-SWITZERLA
 ND:TWA 0.01 mg/m³;Skin OEL-TURKEY:TWA 0.1 mg/m³;Skin OEL IN
 BULGARIA
 , COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND,
 SINGAPO
 RE, VIETNAM check ACGI TLV OEL-AUSTRALIA:TWA 0.05
 mg(Hg)/m³;Skin JAN
 UARY 1993 OEL-BELGIUM:TWA 0.05 mg(Hg)/m³;Skin JANUARY 1993
 OEL-CZEC
 HOSLOVAKIA:TWA 0.05 mg(Hg)/m³;STEL 0.15 mg(Hg)/m³
 OEL-DENMARK:TWA 0.0
 5 mg(Hg)/m³ JANUARY 1993 OEL-FINLAND:TWA 0.05 mg(Hg)/m³
 JANUARY 199
 3 OEL-FRANCE:TWA 0.05 mg(Hg)/m³ JANUARY 1993
 OEL-GERMANY:TWA 0.01 p
 pm (0.1 mg(Hg)/m³) JANUARY 1993 OEL-HUNGARY:TWA 0.02
 mg(Hg)/m³;STEL
 0.04 mg(Hg)/m JANUARY 1993 OEL-JAPAN:TWA 0.05 mg(Hg)/m³
 JANUARY 1993
 OEL-THE NETHERLANDS:TWA 0.05 mg(Hg)/m³;STEL 0.15 mg(Hg)/m³
 OEL-THE
 PHILIPPINES:TWA 0.05 mg(Hg)/m³ JANUARY 1993 OEL-POLAND:TWA
 0.01 mg(H
 g)/m³ JANUARY 1993 OEL-RUSSIA:TWA 0.05 mg(Hg

Section 16 - Additional Information

MSDS Creation Date: 9/29/1995

Revision #3 Date: 9/02/1997

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