

	Mercur	y(II) Nitra	ate Monohydrate	<u>Pricing ></u>	
	Mercury(II) Nitrate Solution Pricin		<u>Pricing ></u>		
Linear Formula Hg(NO ₃) ₂ •			H ₂ O		
Pubchem CID		3084029			
MDL Number		MFCD00149736			
EC No.		233-152-3			
IUPAC Name		mercury(2+); dinitrate; hydrate			
SMILES		[Hg+2].[O-][N+]([O-])=O.[O-][N+]([O-])=O.O			
Inchl Identifier		InChI=1S/Hg.2NO3.H2O/c;2*2-1(3)4;/h;;;1H2/q+2;2*-1;			
Inchl Key KV		KVICROH	ROHOONHSRH-UHFFFAOYSA-N		
	Signal Word		Danger		
	Hazard Statements		H300-H310-H330-H373-H410		
	Hazard Codes		T+, N		
	Risk Codes		26/27/28-33-50/53		
	Safety Statements		13-28-45-60-61		
	RTECS Number		OW8225000		
	Transport Information		UN 1625 6.1/PG II		
	WGK Germany		3		
	GHS Pictograms		GHS06 Skull a Crossbones Crossbones GHS08 Health Hazard		

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SAFETY DATA SHEET

Date Accessed: 05/04/2024 Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #7783-34-8

Relevant identified uses of the substance: Scientific research and development

Supplier details: American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351

Emergency telephone number: Domestic, North America +1 800-424-9300 International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification: This chemical is considered hazardous by the 2012 **OSHA Hazard Communication Standard (29 CFR** 1910.1200) Acute oral toxicity Category 2 Acute dermal toxicity Category 1 Acute Inhalation Toxicity - Dusts and Mists Category 2 Specific target organ toxicity - (repeated exposure) Category 2 Signal Word: Danger Hazard Statements: Fatal if swallowed Fatal in contact with skin Fatal if inhaled May cause damage to organs through prolonged or repeated exposure



Precautionary Statements Prevention: Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Do not get in eyes, on skin, or on clothing Wear protective gloves/protective clothing/eye protection/face protection Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection Response: Get medical attention/advice if you feel unwell Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician Skin: Immediately call a POISON CENTER or doctor/physician IF ON SKIN: Gently wash with plenty of soap and water Remove/Take off immediately all contaminated clothing Wash contaminated clothing before reuse Indestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Storage: Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal: Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC): Very toxic to aquatic life with long lasting effects WARNING. Reproductive Harm https://www.p65warnings.ca.gov/.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Compnent / CAS-No: Mercury (II) nitrate, monohydrate / 7783-34-8

SECTION 4. FIRST AID MEASURES

General Advice:

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. Eye Contact:

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

immediately with plenty of water, also under the eyelids, for at least 15 minutes. Skin Contact:

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required. Inhalation:

Move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Ingestion:

Do not induce vomiting. Call a physician or Poison Control Center immediately. Most important symptoms and effects: None reasonably foreseeable. Notes to Physician: Treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable Extinguishing Media No information available Flash Point No information available Method - No information available Autoignition Temperature **Explosion Limits** Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available Specific Hazards Arising from the Chemical: Very toxic. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Do not allow run-off from fire fighting to enter drains or water courses. Hazardous Combustion Products: Nitrogen oxides (NOx) Mercury oxide Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors NFPA:

Health - 4 Flammability - 1 Instability - 1 Physical hazards N/A

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Ensure adequate ventilation. Avoid dust formation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

Environmental Precautions:

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.

Methods for Containment and Clean Up: Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

SECTION 7. HANDLING AND STORAGE

Handling:

Wear personal protective equipment. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe vapors/dust. Do not ingest.

Storage:

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from direct sunlight.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component: Mercury (II) nitrate, monohydrate ACGIH TLV: TWA: 0.025 mg/m3 Skin OSHA PEL: (Vacated) Ceiling: 0.1 mg/m3 NIOSH IDLH: IDLH: 10 mg/m3 TWA: 0.05 mg/m3 Ceiling: 0.1 mg/m3 Mexico OEL (TWA):

TWA: 0.05 mg/m3 **Engineering Measures:** Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. **Personal Protective Equipment** Eye/face Protection: 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 and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure. **Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Hvaiene Measures: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Powder Solid Appearance Off-white Odor slight nitric Odor Threshold No information available pH 3 Melting Point/Range 77 - 79 °C / 170.6 - 174.2 °F Boiling Point/Range No information available Flash Point No information available **Evaporation Rate Not applicable** Flammability (solid, gas) No information available Flammability or explosive limits Upper No data available Lower No data available Vapor Pressure No information available Vapor Density Not applicable Specific Gravity 4.39 Bulk Density 1200 kg/m3 Solubility Soluble in water Partition coefficient: n-octanol/water No data available Autoignition Temperature Decomposition Temperature No information available Viscosity Not applicable Molecular Formula HgN2O6 . H2O Molecular Weight 342.6

SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard: None known, based on information available Stability: Light sensitive. Conditions to Avoid: Avoid dust formation. Incompatible products. Excess heat. Exposure to light. Incompatible Materials: Alcohols, Ammonia, Cyanides, Reducing Hazardous Decomposition Products: Nitrogen oxides (NOx), Mercury oxide Hazardous Polymerization: No information available. Hazardous Reactions: None under normal processing

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Component: Mercury (II) nitrate, monohydrate LD50 Oral: LD50 = 26 mg/kg (Rat) LD50 Dermal: LD50 = 75 mg/kg (Rat) LC50 Inhalation: Not listed **Toxicologically Synergistic Products:** No information available Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation: No information available Sensitization: No information available Carcinogenicity Component: Mercury(II) nitrate, monohydrate CAS-No: 7783-34-8 IARC: Not listed NTP: Not listed ACGIH: Not listed OSHA: Not listed Mexico: Not listed Mutagenic Effects No information available Reproductive Effects No information available. Developmental Effects No information available. Teratogenicity No information available. STOT - single exposure None known STOT - repeated exposure None known Aspiration hazard: No information available Symptoms / effects, both acute and delayed: No information available

Endocrine Disruptor Information: No information available Other Adverse Effects: The toxicological properties have not been fully investigated.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Reacts with water so no ecotoxicity data for the substance is available. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system. Component: Mercury (II) nitrate, monohydrate Freshwater Algae: Not listed Freshwater Fish: 0.17 mg/l (fathead minnow) Microtox: Not listed Water Flea: Not listed Persistence and Degradability: May persist based on information available. Bioaccumulation/ Accumulation: No information available. Mobility: Is not likely mobile in the environment due its low

water solubility. Is not likely mobile in the environment. Will likely be mobile in the environment due to its water solubility.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14. TRANSPORT INFORMATION

DOT UN-No UN1625 Proper Shipping Name MERCURIC NITRATE Hazard Class 6.1 Packing Group II TDG UN-No UN1625 Proper Shipping Name MERCURIC NITRATE Hazard Class 6.1 Packing Group II IATA UN-No UN1625 Proper Shipping Name MERCURIC NITRATE Hazard Class 6.1 Packing Group II IMDG/IMO UN-No UN1625 Proper Shipping Name MERCURIC NITRATE Hazard Class 6.1 Subsidiary Hazard Class P Packing Group II

SECTION 15. REGULATORY INFORMATION

Component: Mercury (II) nitrate, monohydrate TSCA: -DSL: -NDSL: -EINECS: -ELINCS: -NLP: PICCS: X ENCS: -AICS: X **IECSC: X** KECL: -**U.S. Federal Regulations:** TSCA 12(b) Not applicable **SARA 313** Component: Mercury (II) nitrate, monohydrate CAS-No: 7783-34-8 Weight: >95 % SARA 313 - Threshold Values: 1.0 % CWA (Clean Water Act) Component: Mercury (II) nitrate, monohydrate CWA - Hazardous Substances: -CWA - Reportable Quantities: -CWA - Toxic Pollutants CWA - Priority Pollutants: -Clean Air Act Component: Mercury (II) nitrate, monohydrate HAPS Data: X **Class 1 Ozone Depletors** Class 2 Ozone Depletors: -RCLA Component: Mercury (II) nitrate, monohydrate Hazardous Substances RQs: 10 lb **CERCLA EHS RQs: -**California Proposition 65

Component: Mercury (II) nitrate, monohydrate CAS-No: 7783-34-8 California Prop. 65: Developmental Prop 65 NSRL: -Category: Developmental U.S. State Right-to-Know Regulations Component: Mercury (II) nitrate, monohydrate Massachusetts: -New Jersey: X Pennsvlvania: X Illinois: X Rhode Island: -U.S. Department of Transportation: Reportable Quantity (RQ): N **DOT Marine Pollutant N** DOT Severe Marine Pollutant N U.S. Department of Homeland Security This product does not contain any DHS chemicals.

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.