

SAFETY DATA SHEET

Preparation Date: 11/27/2018 Revision Date: 11/27/2018 Revision Number: E1

1. IDENTIFICATION

Product identifier

Product code: AM168

Product Name: Ammoniated Mercury, Powder, USP

Other means of identification

Synonyms: Mercury Ammonium Chloride, Mercury (II) Amidochloride

CAS #: 210124-48-8

RTECS # OV7020000

CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Laboratory chemicals. Research and Development.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St.

Gardena, CA 90248

(310) 516-8000

Order Online At: <https://www.spectrumchemical.com>

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person: Tom Tyner (West Coast)

Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Emergency Overview

Signal word(s):

Danger

Pictogram(s):



Hazard statements:

Fatal if inhaled

Toxic if swallowed

Harmful in contact with skin

May cause damage to organs through prolonged or

repeated exposure

Precautionary statements:

Do not breathe dust or mist

Wash skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling.

Wear respiratory protection, protective gloves, protective clothing, eye protection, face protection

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
Hazards not otherwise classified: None
Ingredients of unknown acute toxicity: None
GHS Classification:
Acute toxicity, Oral - 2
Acute toxicity, Inhalation - 2
Acute toxicity, Dermal - 1
Specific target organ toxicity - repeated exposure - 2

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name: Mercury ammonium chloride, 100%
CAS number: 10124-48-8 EC number: 233-335-8 Formula: NH₂HgCl
Ingredients of known acute toxicity: Mercury ammonium chloride

4. FIRST AID MEASURES

After inhalation:
Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
After eye contact:
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
After ingestion:
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Information for doctor:
Show this safety data sheet to the doctor in attendance
Symptoms/effects; acute and delayed:
Exposure to mercury compounds can cause tremors, loss of appetite, anuria, uremia, weight loss, lack of coordination, insomnia, irritability, fatigue, anxiety, anorexia, hallucinations, headache, depression, stomatitis, nausea, vomiting, diarrhea, metallic taste, muscle weakness, loosening of the teeth, pain, numbness in the extremities, nephritis, peripheral neuropathy, collapse, and death. After absorption it circulates in the blood and accumulates in almost all tissues, especially in the brain, liver and kidneys.

5. FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing agents:
Water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special hazards caused by the material, its products of combustion or resulting gases:
Mercury, hydrogen chloride, oxides of mercury and nitrogen (NO_x)
Special fire fighting procedures:
Wear self-contained breathing apparatus and fully protective fire fighting equipment/clothing
Unusual fire and explosion hazard:
Explosive reaction with halogens or amine metal salts

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:
Wear respiratory protection. Avoid dust formation. Ensure adequate ventilation.
Measures for environmental protection: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Measures for cleaning/collecting:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for proper disposal.

Additional information:

See Section 7 for information on safe handling

See Section 8 for information on personal protective equipment

See Section 13 for information on disposal

See Section 15 for regulatory information

7. HANDLING AND STORAGE

Information for safe handling: Avoid contact with skin and eyes. Avoid dust formation. Provide appropriate exhaust ventilation.

Information about protection against explosions and fires: No data available

Storage requirements to be met by storerooms and containers: Keep container tightly closed in a dry and well-ventilated place

Incompatibility (avoid contact with): Strong acids and oxidizers. Reacts explosively with halogens or amine metal salts.

Further information about storage conditions: Protect from light - causes decomposition

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation requirements: Local exhaust, chemical fume hood

Components with exposure limits that require monitoring:

NIOSH REL: TWA 0.01 mg(Hg)/m³

ACGIH TLV: TWA 0.025 mg(Hg)/m³; Target organs; kidneys, CNS

Additional information: No additional data available

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be adhered to. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin

Personal protective equipment

Respiratory protection: Filter-dust, fume, mist; respirator equipped with HEPA (Use only NIOSH or CEN approved Equipment)

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique.

Eye protection: Safety glasses, goggles

Skin protection: Completely covering work attire with full length apron

Additional protective equipment: Sufficient to prevent contact. Emergency eyewash and safety shower

Precautionary labeling: Wash thoroughly after handling

Do not get in eyes, on skin or on clothing

Do not breathe dust, vapor, mist, gas

Keep away from heat, sparks, and open flames

Empty container may contain hazardous residues

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Powder

Color: White to off-white

Odor: Odorless

Odor threshold: Not determined

Molecular Weight (Calculated): 252.07

pH: Not determined

Melting point/freezing point/range: Not determined

Boiling point/range: Not determined

Sublimation temperature/start: Not determined

Decomposition temperature: Not determined

Flammability (solid, gas): Not determined

Flash point: Not determined

Autoignition temperature: Not determined

Danger of explosion: Not determined

Flammable limits: Non-flammable

Lower: Not determined Upper: Not determined

Vapor pressure (mm Hg): Not determined

Vapor density: Not determined

Specific gravity: 5.70

Bulk density: Not determined

Solubility/Miscibility with water: 1.4 g/L, 25°C determined

Partition coefficient n-octanol/water: Not

Viscosity: Not determined

Other information: Not determined

10. STABILITY AND REACTIVITY

Reactivity: Not determined

Chemical stability: Stable under recommended storage conditions

Possibility of hazardous reactions: Not determined

Conditions to be avoided: Protect from light - causes decomposition

Materials to be avoided: See section 7 for information on proper handling and storage

Dangerous reactions: Explosive reaction with halogens or amine metal salts

Hazardous decomposition products: Mercury, hydrogen chloride, oxides of mercury and nitrogen (NO_x)

11. TOXICOLOGICAL INFORMATION

LD/LC50 values that are relevant for classification: oral-rat LD50: 86 mg/kg, skin-rat LD50: 1325 mg/kg

Irritation or corrosion of skin: No data available

Irritation or corrosion of eyes: No data available

Primary irritant or corrosive effect:

on the skin: No data available

on the eye: No data available

Sensitization: No data available

Potential health effects:

Inhalation: No data available

Ingestion: No data available

Skin: No data available

Eyes: No data available

Signs and symptoms of exposure:

Exposure to mercury compounds can cause tremors, loss of appetite, anuria, uremia, weight loss, lack of coordination, insomnia, irritability, fatigue, anxiety, anorexia, hallucinations, headache, depression, stomatitis, nausea, vomiting, diarrhea, metallic taste, muscle weakness, loosening of the teeth, pain, numbness in the extremities, nephritis, peripheral neuropathy, collapse, and death. After absorption it circulates in the blood and accumulates in almost all tissues, especially in the brain, liver and kidneys.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Carcinogenicity: No data available

Additional information: No data available

12. ECOTOXICOLOGICAL INFORMATION

Toxicity:

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability:

Biodegradability: No data available

Bioaccumulative potential:

Bioaccumulation: No data available

Mobility in soil: No data available

Other adverse effects: Very toxic to aquatic life with long lasting effects

13. DISPOSAL CONSIDERATIONS

Recommendation: Consult state, local or national regulation for proper disposal

Allow professional disposal company to handle waste. Must be specially treated under adherence to official regulations

Unclean packaging disposal: Disposal must be made according to official regulations

14. TRANSPORT INFORMATION

Land transport DOT


Proper shipping name: Mercury ammonium chloride

DOT Hazard Class: 6.1

UN Identification number: UN1630, Toxic and Marine Pollutant
Packing group: II
Reportable quantity (RQ): 0.454 kg
North American Emergency Response Guidebook No.: 151

15. REGULATORY INFORMATION

SARA Section 302 Extremely Hazardous components and corresponding TPQs: Not subject
SARA Section 311 / 312 hazards: Acute Health Hazard, Chronic Health Hazard
SARA Section 313 components: This product contains chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-to-know Act of 1986 and 40CFR372
California Proposition 65 components:

WARNING:  **WARNING:** This product can expose you to chemicals including mercury, which is known to the State of California to cause birth defects or other reproductive harm
TSCA: Product is listed on TSCA Inventory

16. OTHER INFORMATION

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Prepared by: Ken Wiener

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet