

MATERIAL SAFETY DATA SHEET

MSDS Name: Sal Ammoniac

MSDS Number: 557

MSDS Date: 02.25.13

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SECTION I: PRODUCT AND COMPANY INFORMATION

Product Name: Sal Ammoniac
CAS Number: Ammonium Chloride 12125-02-9

Company Identification: Kapp Alloy and Wire, 1 Klein Street / PO Box 1188, Oil City, PA 16301
Contact: Operations Team Leader, Telephone: 814.676.0613, Fax: 814.676.5565, Email: info@kappalloy.com
CHEMTREC 1-800-424-9300

SECTION II: HAZARD INFORMATION**PRIMARY ROUTES OF ENTRY**

- Inhalation: fumes
- Ingestion: Solid white block– not edible; highly unlikely
- Skin Absorption: N/A

SIGNS AND SYMPTOMS OF EXPOSURE

- Inhalation: Nose & throat irritation, headache, dizziness, difficulty breathing, coughing.
- Ingestion: nausea, vomiting, cramps.
- Skin: redness, burning, rash, dryness.
- Eye: redness, burning, tearing, blurred vision.
- Medical conditions aggravated by exposure: Respiratory tract, kidney conditions.

NOTE: IT IS UNLIKELY THAT NORMAL EXPOSURE TO THIS PRODUCT, WHILE USING APPROPRIATE PROTECTIVE EQUIPMENT, WOULD RESULT IN ILLNESS.

SECTION III: COMPOSITION / INGREDIENTS

*(Hazardous components 1% or greater; Carcinogens 0.1% or greater)

Component	CAS Number	OSHA PEL	ACGIH TLV 8hrTWA	Specific Gravity
Ammonium Chloride	12125-02-9	10 mg/m ³ fume	10 mg/m ³ fume	1.53

No other hazardous material is present in concentrations greater than 1% (0.1% for Carcinogens). Only those ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200.

* An ingredient marked with an asterisk(*) is also listed in 29CFR 1910.1200(D) #4 as a known or suspected cancer hazard.

+ Denotes a chemical regulated as toxic by the Environmental Protection Agency (EPA) as outlined in 40 CFR Part 372 (Section 313)(SARA Title III)

SECTION IV: FIRST AID MEASURES

INGESTION: Drink large amounts of water, DO NOT induce vomiting- seek medical attention.
Never give anything by mouth to an unconscious person.

Call a physician at once; advise of chemical composition (section III).

SKIN: Flush with water immediately - Seek medical attention if necessary

INHALATION: Terminate exposure and remove to fresh air. Seek medical attention if necessary

EYE: Flush with water for at least 15 minutes to remove irritant. Consult a physician

NOTE: IT IS UNLIKELY THAT NORMAL EXPOSURE TO THIS PRODUCT, WHILE USING APPROPRIATE PROTECTIVE EQUIPMENT, WOULD RESULT IN ILLNESS.

SECTION V: FIRE FIGHTING MEASURES

Flash point & Methods Used: NE

Auto Ignition Temperature: NE

Flammability Limits: (in air, % by volume) LEL: NE and UEL: NE

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Extinguisher Media: All fire extinguishers**Special Fire Fighting Procedures** Use NIOSH/MSHA -approved self-contained breathing apparatus and full protective clothing if involved in fire.**Unusual Fire and Explosion Hazards** May release ammonia, hydrochloric acid, nitrogen oxide fumes.**SECTION VI: ACCIDENTAL RELEASE MEASURES**

Steps to be taken if material is spilled or released:

- Flush into a chemical sewer or soak up with a suitable absorbent.
- Avoid skin and eye contact, inhalation and ingestion of fumes and material. Wash contaminated clothing before reuse. Keep away from children. Do not reuse container.

SECTION VII: HANDLING AND STORAGE

Precautions to be taken in handling and storage:

- Dry storage; ambient temperature

Other Precaution / Special Handling:

- Wash after use. Follow good industrial hygienic practices.

SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Use Ammonia Fume NIOSH-approved breathing apparatus to prevent exposure to dusts and fumes.**Eye Protection:** Approved safety glasses or welding goggles, appropriate to your procedure, should be worn.**Ventilation:** Local Exhaust: YES Mechanical: YES
Special: Conform to your regulatory statutes.**Other:** Standard protective equipment used in soldering (/applicable) operations.*Protective gloves are recommended, *especially for high temperature applications to prevent burns.*

*Conform to all local, state, federal regulations.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: sublimates 640^oF / 338^oC**Melting Point:** 428^oF / 220^oC**Vapor Pressure (mm Hg.):** NE**Vapor Density (AIR = 1):** NE**Specific Gravity:** 1.53**Solubility in Water:** 100**Evaporation Rate (Butyl Acetate = 1):** <1**Appearance and Odor:** White solid, odorless.**SECTION X: STABILITY AND REACTIVITY**

Stability: Stable**Conditions to avoid:** Strong acids, strong alkalis, strong bases, oxidizers.**Hazardous Decomposition Products:** ammonia, hydrochloric acid, nitrogen oxide fumes (incomplete combustion)

*HAZARDOUS POLYMERIZATION WILL NOT OCCUR

SECTION XI: TOXICOLOGY INFORMATION

Ammonium Chloride: Contact with the material or fumes may cause skin, eye, and respiratory tract irritation. Ingestion may cause digestive tract irritation. Gross or repeated inhalation may result in asthma-like conditions. Toxicity is considered low via inhalation and ingestion. Chronic exposure may result in respiratory tract and kidney effects. Studies show that potential health risks vary by individual. Always minimize exposure as a precaution.

IT IS UNLIKELY THAT NORMAL EXPOSURE (USING APPROPRIATE PROTECTIVE EQUIPMENT)

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WOULD RESULT IN ILLNESS.

*0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

	Health	Flammability	Reactivity	Special
NFPA Rating	1	0	0	0
HMIS Rating	1	0	0	0

SECTION XII: ECOLOGY INFORMATION

This product will not biodegrade. It will oxidize if left out in the elements, but will not affect the surrounding ecology.

SECTION XIII: DISPOSAL CONSIDERATION

Waste Disposal Method

- Dispose of according to federal, state, local, and OSHA regulations.

SECTION XIV: TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION

Proper shipping name: Solid Soldering Flux - NOT REGULATED
Hazard Class: NAIF
ID & Packing Group Number: NAIF
ERG Guide Number: NAIF

SECTION XV: REGULATORY INFORMATION

SARA Title III Program:

- This product contains no toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right to Know Act (EPCRA) of 1986 and 40 CFR 372

SECTION XVI: OTHER INFORMATION

This information must be included in all MSDS that are copied and distributed for this material.

**GOOD HOUSEKEEPING PROCEDURES SHOULD BE MAINTAINED.
PERSONNEL SHOULD WASH THOROUGHLY BEFORE SMOKING OR EATING
FOOD AND DRINK SHOULD NOT BE CONSUMED, TOBACCO PRODUCTS USED, OR COSMETICS
APPLIED IN AREAS WHERE EXPOSURES EXIST.**

Please retain this sheet for your files. Kapp Alloy maintains a file of Material Safety Data Sheets (MSDS) for each alloy produced in compliance with Federal OSHA Hazard Communication Standard (29 CFR 1910.1200) & various right-to-know laws.

The information and recommendations contained within this publication have been compiled from sources believed to be reliable and to represent the best information available to Kapp Alloy and Wire, Inc. at the time of issue. It is our policy to include an MSDS with initial orders for each product. This submission is to become a matter of record and need not accompany subsequent shipments for the same product to the same customer. The information contained on this sheet is intended solely for employee health and safety education and not for contract specification purposes. No warranty, guarantee, or representation is made by Kapp Alloy and Wire, Inc., nor does Kapp Alloy and Wire, Inc. assume any responsibility in connection there within; nor can it be assumed that all acceptable safety measures or other safety measures may not be required under particular or exceptional conditions or circumstances. Should you need additional information, contact us.