

JOHNSON MANUFACTURING COMPANY
Material Safety Data Sheet
to comply with 29 CFR 1910.1200,
OSHA's Hazard Communication Standard

Sal Ammoniac bars, 24-100

Section I:

Johnson Manufacturing Company
114 Lost Grove Road
Princeton IA 52768

Emergency Telephone (563)-289-5123
CHEMTREC 1-(800)-424-9300
Revised 1/1/2009

Section II: Hazardous Ingredients/Identity information

Hazardous Component	CAS #	OSHA TWA	ACGIH TWA	Other limits
ammonium chloride	12125-02-9	10mg/M3 fume	10mg/M3 fume	NE

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 III: Physical/Chemical Characteristics

Boiling Point: sublimates 640 F	Specific Gravity: 1.53
Vapor Pressure (mm Hg): NE	Melting Point: 428 F
Vapor Density: NE	Evaporation Rate
Solubility in water: 100	(butyl acetate=1): < 1
Appearance and odor: white solid - Odorless	

Section IV: Fire and Explosion Hazard Data

Flash Point: NE
Extinguishing media: all
Special fire fighting procedures: Use self contained breathing apparatus
Unusual Fire and Explosion Hazards: May release ammonia, hydrochloric acid, nitrogen oxide fumes.

Flammable limits lel: NE uel: NE

Section V: Reactivity Data

Stability : STABLE Conditions to avoid : none
Incompatibility (materials to avoid): strong acids & bases, oxidizers
Hazardous Decomposition or Byproducts (incomplete combustion): Ammonia, hydrochloric acid, nitrogen oxide.
Hazardous Polymerization: WILL NOT OCCUR Conditions to avoid: none

Section VI: Health Hazard Data

Routes of entry: Inhalation? yes Skin? no Ingestion? yes

Health Hazards (acute and chronic): Contact with 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 condition. 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.

Carcinogenicity: not determined NTP? no IARC Monographs? no

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

Emergency first aid procedures:

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

Eyes: Flush with water for 15 minutes - Seek medical attention

Ingestion: Drink large amounts of water, DO NOT induce vomiting-see medical attention.

Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. Support respiration if required.

Seek medical attention if necessary.

Section VII: Precautions for Safe Handling and Use

Steps to be taken if material is released or spilled: Flush into a chemical sewer or soak up with a suitable absorbant.

Waste Disposal Method: dispose of in accordance with all local state and federal regulations

Other Precautions: Avoid skin & eye contact, inhalation & ingestion of fumes and material.

Wash contaminated clothing before reuse. Keep away from children. Do not reuse container.

Section VIII: Control Measures

Respiratory Protection (type): Ammonia fume type respirator required for fumes.

Ventilation Local Exhaust preferred Special: NE

Mechanical: OK Other: NE

Protective Gloves: plastic or rubber Eye Protection: Goggles or face shield

Other Protective Clothing or Equipment: as required to avoid contact.

Work/Hygienic Practices: Wash after use. Follow good industrial hygienic practices.

Section IX: Additional Information

DOT Classification: Non-Hazardous

NFPA Classification (NFPA 325M, 8th edition) (Health, Flammability, Reactivity): 1-0-0

Other: NE

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NE = not established NA = not applicable

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