

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

## Sal Ammoniac Bars, 24-100-00

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### 1. PRODUCT AND COMPANY INFORMATION

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Johnson Manufacturing Company  
 114 Lost Grove Road  
 Princeton IA 52768

Emergency Telephone 1-(563)-289-5123  
 CHEMTREC AFTER HOURS 1-(800)-424-9300  
 Revised 1/1/2015 by JMC Product Safety

### 2. HAZARD IDENTIFICATION

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**GHS Classification:**

Acute Tox. 4 \*  
 Skin Irrit. 2  
 Eye Irrit. 2



**GHS Label Elements:**

**AMMONIUM CHLORIDE  
 WARNING**

**H Codes:** H302, H319  
 Harmful if swallowed  
 Harmful if inhaled  
 Causes severe eye irritation

**P Codes:**

P264, 280, 301+312, 330, 501, 405, 305+351+338+310, 337+313

Avoid breathing mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Use in a well ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation use respiratory protection. Do not breathe dust/fume/gas/mist/vapor/spray. Do not eat, drink or smoke when using this product. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER/Doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call POISON CENTER/Doctor. Wash thoroughly after use. Wash contaminated clothing before reuse. Store in a closed compatible container in cool dry place. Avoid release to the environment. Dispose of contents/container in accordance with specified local/regional/national/international regulations for disposal. Keep out of the reach of children. Read label and SDS prior to use.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Hazardous Component	CAS #	OSHA TWA	ACIGH TWA	Other limits	%
Ammonium Chloride	12125-02-9	10mg/M3	10mg/M3		

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 40CFR Part 372 (section 313)

### 4. FIRST AID MEASURES

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**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:** Skin, kidney and respiratory 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: DO NOT induce vomiting, drink large amounts of water - seek medical attention. Never give anything by mouth to an unconscious person

Inhalation: Remove to fresh air. Support respiration if required - Seek medical attention

## 5. FIREFIGHTING MEASURES

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**Extinguishing media:** dry chemical.

**Special fire fighting procedures:** use self sustaining respiratory suit.

**Unusual Fire and Explosion Hazards:** May release ammonia hydrochloric acid and nitrogen oxides.

## 6. ACCIDENTAL RELEASE MEASURES

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**Methods and materials:** Flush into chemical sewer or soak up with a suitable absorbent. Wear adequate protection as described in section 8.

**Environmental Precautions:** Avoid release to the environment. Collect spillage.

## 7. HANDLING & STORAGE

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Wash thoroughly after use. Wash contaminated clothing before reuse. Store in a closed corrosive resistant container, with corrosive resistant liner, in cool dry place. Keep out of the reach of children. Read label and SDS prior to use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Occupational Exposure Limit Values:** See section 3.

**Respiratory Protection (type):** Acid mask required for fumes above TWA.

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Boiling Point:** 640 C

**Specific Gravity:** 1.53

**Vapor Pressure (mm Hg):** NE

**Melting Point:** 428 F

**Vapor Density:** NE

**Evaporation Rate:** <1 (butyl acetate=1)

**Solubility in water:** near 100%

**pH:** NE

**Flash Point:** NE (TOC)

**Flammable Limits:** lel: NE    uel: NE

**Appearance and odor:** White solid, odorless.

## 10. STABILITY AND REACTIVITY

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**Stability :** STABLE    **Conditions to avoid :** none

**Incompatibility (materials to avoid):** strong bases & acids, oxidizers, sulfides, halogens.

**Hazardous Decomposition or Byproducts (incomplete combustion):** Ammonia, hydrochloric acid, chlorine, and nitrogen oxides.

**Hazardous Polymerization:** WILL NOT OCCUR    **Conditions to avoid:** none

## 11. TOXICOLOGICAL INFORMATION

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**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    NPT? no    IARC Monographs? no

## 12. ECOLOGICAL INFORMATION

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**Toxicity:** NE

**Persistence & Degradability:** NE

**Bio-accumulative Potential:** NE

**Mobility in Soil:** NE

**PBT & vPvB Assessment:** NE

**Other Adverse Effects:** NE

## 13. DISPOSAL CONSIDERATIONS

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**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.

## 14. TRANSPORT INFORMATION

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**DOT Classification:** Non-Hazardous

**Marine Pollutant:** NE

## 15. REGULATORY INFORMATION

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

## 16. OTHER INFORMATION

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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 JOHNSON MANUFACTURING at the time of issue. No warranty, guarantee, or representation is made by JOHNSON MANUFACTURING nor does JOHNSON MANUFACTURING 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.

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NE = not established NA = not applicable

Form 303.94 Rev.D