

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

## **Sal Ammoniac bars, 24-100**

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### **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

