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

**Johnson's Soldering Fluid, 01-00****Section I:**

Johnson Manufacturing Company  
114 Lost Grove Road  
Princeton IA 52768

Emergency Telephone (563)-289-5123  
CHEMTREC after hours 1-(800)-424-9300  
Revised 1/1/2006

**Section II: Hazardous Ingredients/Identity information**

Hazardous Component	CAS #	OSHA TWA	ACGIH TWA	Other limits	
+ Zinc Chloride	7646-85-7	1mg/M3	1mg/M3	NE	39 %
Ammonium Chloride	12125-02-9	10mg/M3	10mg/M3	NE	
As Zinc Ammonium Chloride					

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)

**Section III: Physical/Chemical Characteristics**

Boiling Point: 230 F	Specific Gravity: 1.403
Vapor Pressure (mm Hg): NE	Melting Point: NE
Vapor Density: NE	Evaporation Rate
Solubility in water: 100	(butyl acetate=1): < 1
Appearance and odor: clear to yellow liquid, wintergreen odor	

**Section IV: Fire and Explosion Hazard Data**

Flash Point: nonflammable                      Flammable limits lcl: NA uel: NA  
Extinguishing media: all  
Special fire fighting procedures: Use self contained breathing apparatus  
Unusual Fire and Explosion Hazards: May release hydrochloric acid, zinc chloride, zinc oxide.

**Section V: Reactivity Data**

Stability : STABLE                      Conditions to avoid : none  
Incompatibility(materials to avoid): oxidizers, strong acids & bases, sulfides.  
Hazardous Decomposition or Byproducts (incomplete combustion): Hydrochloric acid, zinc oxide, ammonia, zinc chloride  
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 or burns. Severe inhalation can cause pulmonary edema, which may not manifest for several hours after exposure.  
Ingestion may result in irritation or burning of the digestive tract. Gross

Inhalation or ingestion can result in death. LD50 (ZnCl<sub>2</sub>) (rat)=350 mg/kg. May be mutagenic in lab animals. May cause sensitization. Chronic exposures can result in permanent liver, kidney and respiratory system effects. Studies show that health risks vary by individual. Minimize exposure as a precaution.

Carcinogenicity: not determined NPT? 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: 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.

## **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 and eye contact, inhalation and 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): Acid type respirator for fumes and mist.

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

## **Section IX: Additional Information**

DOT Classification: Non-Hazardous

NFPA Classification (NFPA 325M, 8<sup>th</sup> edition) (Health, Flammability, Reactivity): 2-0-0

This product contains components known to the state of California to cause cancer or reproductive harm

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 therewithin; 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.

NE- not established NA = not applicable

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