

# JOHNSON MANUFACTURING COMPANY

## Safety Data Sheet

To comply with 29CFR 1910.1200  
OSHA's Hazard Communication Standard

### F610 Soldering Paste with Tin\Lead\Silver Alloy

#### 1. PRODUCT AND COMPANY INFORMATION

Johnson Manufacturing Company  
114 Lost Grove Road  
Princeton IA 52768

Emergency Telephone 1-(563)-289-5123  
CHEMTREC AFTER HOURS 1-(800)-424-9300  
Revised 1/1/2021 by JMC Product Safety

#### 2. HAZARD IDENTIFICATION

##### GHS Classification:

Acute Tox. 4 \*  
Skin Corr. 1B  
Aquatic Acute 1  
Aquatic Chronic 1  
Eye Irrit. 2  
Chronic tox 2  
Repro tox 2  
Carcino 2



##### GHS Label Elements:

**ZINC AMMONIUM CHLORIDE & TIN/LEAD/SILVER**  
**DANGER**

**H Codes:** H302, H351, H361, H373, H410  
Harmful if swallowed  
Harmful if inhaled  
Causes severe skin burns and eye damage  
May be corrosive to metals  
Suspected of causing cancer  
Suspected of damaging fertility or the unborn child  
May cause damage to organs through prolonged or repeated exposure  
Very toxic to aquatic life with long lasting effects

##### P Codes:

P264, 270, 281, 301+312, 330, 501, 260, 301+330+331, 303+361+353+310, 363, 304+340, 321, 405, 273, 305+351+338+310, 337+313, 201, 202, 314, 391, 308+313

Do not breathe dust/mist/vapors/fumes. 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 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 corrosive resistant container, with corrosive resistant liner, 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

Hazardous Component	CAS #	OSHA TWA	ACIGH TWA	Other limits	%
Tin	7440-31-5	2mg/M3	2mg/M3	NE	
* + Lead	7439-92-1	0.05mg/M3	0.05mg/M3	NE	75 %
+ Zinc Chloride	7646-85-7	1mg/M3	1mg/M3	NE	7 %
Ammonium Chloride	12125-02-9	10mg/M3	10mg/M3	NE	
As Zinc Ammonium Chloride					
+ Silver	7440-22-4	0.01mg/M3	0.1mg/M3	NE	2 %

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 hydrochloric acid, zinc chloride, zinc oxide, lead, tin, ammonia fumes.

## 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/HEPA 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: 230 F

Vapor Pressure (mm Hg): NE

Vapor Density: NE

Solubility in water: 40%

Flash Point: NE (TOC)

Appearance and odor: Silver/Grey paste, odorless.

Specific Gravity: 5.0

Melting Point: NE

Evaporation Rate: <1 (butyl acetate=1)

pH: NE

Flammable Limits: lel: NE uel: NE

## 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):** Hydrochloric acid, zinc oxide, chlorine, lead, tin, ammonia, zinc chloride.

**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 & fumes may cause skin, eye & respiratory irritation or burns. Inhalation &/or ingestion of material or fumes may result in flu like symptoms, insomnia, muscle weakness, digestive tract irritation or burns. Gross inhalation or ingestion may be toxic and can result in death. Symptoms of toxicity may take hours/days to manifest. Chronic exposures, inhalation or ingestion, may result in liver, kidney, red blood cell, reproductive & nervous system effects. Health effects may be cumulative over many exposures. May be mutagenic in lab animals. May cause sensitization. Studies show that health risks vary by individual. Minimize exposure as a precaution. See OSHA 29 CFR 1910.1025(subpartZ).

**Carcinogenicity:** not determined NPT? no IARC Monographs? no

## 12. ECOLOGICAL INFORMATION

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**Toxicity:** NE

**Bio-accumulative Potential:** NE

**PBT & vPvB Assessment:** NE

**Persistence & Degradability:** NE

**Mobility in Soil:** 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): 2-0-0

This product can expose you to chemicals including lead, which is known to the state of California to cause cancer and/or birth defects or reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## 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

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