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

Alumaweld Flux, 48-00

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: 4/1/2026 by JMC Product Safety

2. HAZARD IDENTIFICATION

GHS Classification:
Eye Dam 1
STOT SE 3
Acute Tox. 4 *
Skin Corr. 1B
Aquatic Acute 1
Aquatic Chronic 1
Flamm Liq 2

GHS Label Elements:

ZINC CHLORIDE & n-PROPANOL
DANGER

H Codes: H302, H314, H332, H410, H225, H335, H336, H319
Harmful if swallowed
Harmful if inhaled
Causes severe skin burns and eye damage
May cause respiratory irritation
May cause drowsiness or dizziness
Flammable liquid & vapor
Very toxic to aquatic life with long lasting effects

P Codes: P260, 280, 264, 301+330+331, 303+361+353, 363, 304+340, 310, 321, 305+351+338+310 405, 501, 261, 271, 312, 403+233, 337+313, 270, 301+312, 330, 273, 210, 233, 240, 241, 242, 243, 370+378
Avoid breathing dust/mist/vapors/fumes/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 eat, drink or smoke when using this product. Keep away from heat, sparks or open flame – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof electrical/ventilating/lighting and equipment. Use only non-sparking tools. Take precautionary measures against static discharge. In case of fire use foam or dry chemical for extinction. 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 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	ACGIH TWA	Other Limits	Percent by Weight
+ Zinc Chloride	7646-85-7	1 mg/m3	1 mg/m3	NE	70%
Ammonium Chloride as Zinc Ammonium Chloride	12125-02-9	10 mg/m3	10 mg/m3	NE	
n-propanol	71-23-8	200 ppm	200 ppm	NE	
Sodium fluoride	7681-49-4	2.5 mg/m3	2.5 mg/m3	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 40CFR Part 372 (section 313)

4. FIRST AID MEASURES

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.

Emergency first aid procedures:
Skin: Flush with water immediately - Seek medical attention if required.
Eyes: Flush with water for 15 minutes - Seek medical attention.
Ingestion: Drink large amounts of water, DO NOT induce vomiting-seek medical attention.
Never give anything by mouth to an unconscious person.
Inhalation: Remove to fresh air. Support respiration if required. Seek medical attention if required.

5. FIREFIGHTING MEASURES

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, chlorine, ammonia, and hydrofluoric acid fumes.

6. ACCIDENTAL RELEASE MEASURES

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

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

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

Boiling Point: 174 F Specific Gravity: NE
Vapor Pressure (mm Hg): NE Melting Point: NE
Vapor Density: NE Evaporation Rate: <1 (butyl acetate=1)
Solubility in water: 100% pH: NE
Flash Point: 55 F (TOC) Flammable Limits: lel: NE uel: NE
Appearance and odor: White/pink paste, alcohol odor.

10. STABILITY AND REACTIVITY

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, ammonia, zinc chloride, hydrofluoric acid.
Hazardous Polymerization: WILL NOT OCCUR Conditions to avoid: none

11. TOXICOLOGICAL INFORMATION

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

Health Hazards (acute and chronic): Contact with material and fumes may cause skin, eye and respiratory tract irritation or burns. Severe inhalation can cause pulmonary edema and nervous system depression, which may not manifest for several hours after exposure. Ingestion may result in irritation and burning of the digestive tract. Gross inhalation or ingestion may be toxic and can result in death. May be mutagenic in lab animals. May cause sensitization. Chronic exposures can result in permanent liver, eye, kidney, and respiratory system effects. Material is combustible and may burn with a nearly invisible flame. Studies show that potential health risks vary by individual. Always minimize exposure as a precaution.

Carcinogenicity: not determined, NTP? No, IARC Monographs? no

12. ECOLOGICAL INFORMATION

Toxicity: NE
Bio-accumulative Potential: NE
PBT & vPvB Assessment: NE
Persistence & Degradability: NE
Mobility in Soil: NE
Other Adverse Effects: NE

13. DISPOSAL CONSIDERATIONS

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. Keep away from spark or flame.

14. TRANSPORT INFORMATION

DOT Classification: Not regulated as dangerous goods
IATA Classification: Not regulated as dangerous goods
IMDG Classification: Not regulated as dangerous goods
Marine Pollutant: NE

15. REGULATORY INFORMATION

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Response and Community Right-To-Know-Act of 1986 (40 CFR 372):

CAS Number	Chemical Name	Percent by Weight
7646-85-7	Zinc Chloride	70%

This information must be included in all SDSs that are copied and distributed for this material.

NFPA Classification (NFPA 325M,8th edition)(Health, Flammability, Reactivity): 1-2-0

16. OTHER INFORMATION

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.