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JOHNSON MANUFACTURING CO -- CONTRACT FLUX -- 3439-00-469-3398

Product ID:CONTRACT FLUX MSDS Date:05/13/1988 FSC:3439 NIIN:00-469-3398 **MSDS Number: BJKNP** === Responsible Party === Company Name: JOHNSON MANUFACTURING CO Address:114 LOST GROVE RD **City:PRINCETON** State:IA ZIP:52768 Country:US Emergency Phone Num:319-289-5123 CAGE:FO706 === Contractor Identification == = Company Name: JOHNSON MANUFACTURING COMPANY Address:114 LOST GROVE ROAD **City:PRINCETON** State:IA ZIP:52768 Phone: (319) 289-5123 CAGE:FO706 Company Name: JOHNSON MFG CO Address:114 LOST GROVE RD Box:City:PRINCETON State:IA ZIP:52768 Country:US Phone:319-289-5123 CAGE:32166

Ingred Name:ZINC CHLORIDE (SARA III) CAS:7646-85-7 RTECS #:ZH1400000 OSHA PEL:1 MG/M3/2 STEL ACGIH TLV:1 MG/M3/2STEL FUME93 EPA Rpt Qty:1000 LBS DOT Rpt Qty :1000 LBS

Ingred Name:AMMONIUM CHLORIDE (SARA III) CAS:12125-02-9 RTECS #:BP4550000 OSHA PEL:10 MG/M3/20 STEL ACGIH TLV:10 MG/M3 FUME; 9192 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:CONTACT W/ PRODUCT MAY CAUSE SKIN IRITATION. LONG TERM CONTACT MAY CAUSE PERMANENT DAMAGE. MUTAGENIC IN LAB ANIMALS. HEALTH STUDIES HAVE SHOWN THAT POTENTIAL HEALTH RISK MAY VARY BY INDIVIDUAL. Explanation of Carcinogenicity:NOT RELEVANT Effects of Overexposure:SEE HEALTH HAZARD. Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid:EYES: FLUSH W/ WATER 15 MIN. SEEK MD. INGEST: DRINK LARGE AMOUNTS OF WATER. SEEK MD. NEVER GIVE LIQUIDS TO A N UNCONSICOUS PERSON. INH: REMOVE TO FRESH AIR. SUPPORT RESIPRATION IF REQUIRED. SEEK MD.

Flash Point:NONFLAMMABLE Extinguishing Media:ALL.

Fire Fighting Procedures: USE NIOSH/MSHA APPROVED SCBA AND FULL

PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:HYDROGEN GAS MAY EVOLVE IN CONTACT W/ METAL.

Spill Release Procedures: FLUSH INTO A CHEM

ICAL SEWER OR SOAK UP W/ A SUITABLE ABSORBANT. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER. Other Precautions:DO NOT STORE OR USE FROM METALLIC CONTAINERS. AVOID CONTACT.

======= Exposure Controls/Personal Protection ==========

Respiratory Protection:ACID MASK REQUIRED FOR FUMES OVER TLV. Ventilation:LOCAL EXHAUST PREFERRED. Protective Gloves:PLASTIC OR RUBBER. Eye Protection:GOGGLES OR FACE SHIELD. Other Protective Equipment:AS REQUIRED TO AVOID CONTACT Work Hygienic Practices:WASH AFTER USE. FOLLOW GOOD INDUSTRIAL HYGIENIC PRACTICES. Supplemental Safety and Health NONE SPECIFIED BY MANUFACTURER.

Boiling Pt:B.P. Text:230F,110C Spec Gravity:1.150 Evaporation Rate & amp; Reference: