JOHNSON MANUFACTURING COMPANY Material Safety Data Sheet

to comply with 29 CFR 1910.1200, OSHA's Hazard Communication Standard

5117 Mild Organic Flux, 46-10

Section I:

Johnson Manufacturing Company 114 Lost Grove Road Princeton, IA 52768 Emergency Telephone 1-(563)-289-5123 CHEMTREC after hours 1-(800)-424-9300 Revised 1/1/2012

Section II: Hazardous Ingredients/Identity information

Hazardous Component CAS # OSHA TWA ACGIH TWA Other limits Percentage

Glutamic Acid Hydrochloride

15767-75-6

NE

NE

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) (SARA Title III).

Section III: Physical/Chemical Characteristics

Boiling Point: 104 C (220 F)

Vapor Pressure (mm Hg): NE

Vapor Density: (Air=1) < 1

Solubility in water: complete

Appearance and odor: Clear liquid, mild citrus odor.

Specific Gravity: 1.04g/ml @ 23 C (74 F)

Melting Point: NE

Evaporation Rate
(butyl acetate=1): 0.9

Section IV: Fire and Explosion Hazard Data

Flash Point: none Flammable limits lel: NA uel: NA Extinguishing media: not applicable Special fire fighting procedures: None Unusual Fire and Explosion Hazards: Small amounts of hydrochloric acid at decomposition.

Section V: Reactivity Data

Stability: STABLE Conditions to avoid: none
Incompatability (materials to avoid): oxidizing agents
Hazardous Decomposition or Byproducts: (incomplete combustion) Hydrochloric acid
Hazardous Polymerization: WILL NOT OCCUR Conditions to avoid: none

Section VI: Health Hazard Data

Routes of entry: Inhalation-yes Skin-No Ingestion-yes

5117 Flux 46-10 Page 2 of 2

Health Hazards (acute and chronic): Contact with fumes and material may cause skin, eye and respiratory tract irritation. Ingestion may cause digestive tact irritation. Toxicity via inhalation and ingestion is considered low. Repeated or gross inhalation may result in mild pulmonary edema, symptoms of which may not manifest for several hours after exposure. Chronic exposure may result in 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

Signs and symptoms of exposure: Inhalation-Nose & throat irritation, Headache, dizziness, difficulty breathing, coughing. Ingestion-nausea, vomiting. Skin-redness, burning, rash, dryness. Eye-redness, burning, tearing, blurred vision.

Medical Conditions Aggravated by exposure: Skin allergies and respiratory/lung conditions.

Emergency first aid procedures:

Skin: Flush with water immediately - Wash thoroughly, 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.

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 & eye contact, inhalation & 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): Organic vapor type respirator for fumes.

Ventilation Local Exhaust preferred

Special: NE

Mechanical: OK

Other: NE

Protective Gloves: plastic or rubber during soldering

Eye Protection: Goggles or face shield during soldering

Other Protective Clothing or Equipment: as required to avoid contact.

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

Section IX: Additional Information

DOT Hazard Classification: Non-hazardous NFPA Hazard Class: (NFPA 325M, 8th Edition) (Health, Flammability, Reactivity):1-0-0 Other: NE

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 available NAP = not applicable

Form 303.150 Rev.C

Back