




Glutamic Acid Hydrochloride	138-15-8	5-10	5	5	No	 (Xi) R41	(H319) Eye Irrit. 2A 	(H319) Eye Irrit. 2A 
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Important This section covers the materials of which the products manufactured. The fumes and gases produced during normal use of this product are covered in section 10. The term "Hazardous" in "Hazardous Material" should be interpreted as a term required and defined in OSHA Hazard Communication Standard 29CFR 1910-1200 and it does not necessarily imply the existence of hazard. The chemicals or compounds reportable by Section 313 of SARA are marked by the symbol #.

4. FIRST AID MEASURES:

Inhalation: Remove to fresh air immediately or administer oxygen. Get medical attention immediately.

Skin: Flush skin with large amounts of water and soap. If irritation develops and persists, get medical attention.

Eye: Flush eyes with water for at least 15 minutes. Get medical attention.

Ingestion: Obtain medical attention immediately if ingested. Rinse mouth.

5. FIRE-FIGHTING MEASURES:

Suitable Extinguishing Media: Not applicable. Non-combustible

Unsuitable Extinguishing Media: Not applicable

Specific Hazards Arising From Chemical: Will release small amounts of HCl.

Protective Equipment: Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Refer to section 8.

Environment Precautions: Refer to section 13.

Cleaning Measures: Neutralize with soda ash or sodium bicarbonate. Dilute with water and dispose of in accordance with EPA regulations. Wash spill area with plenty of water.

7. HANDLING AND STORAGE:

Precautions for Safe Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation.

Conditions for Safe Storage: Store in a tight closed container. Store this product in a cool, dry, well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION:

Engineering Controls: The usual precautionary measures for handling chemicals should be followed. Keep away from food, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before break and at the end of the work. Store all protective clothing separately. Maintain an ergonomically appropriate working environment. Wear protective equipment. Keep unprotected persons away. Avoid causing dust.

Exposure limits: Use industrial hygiene equipment to ensure that exposure does not exceed applicable national exposure limits. The limits defined under section 3 can be used as guidance. Unless noted, all values are for 8 hour time weighted average.

Biological limits: No available data

Personal protection:

Eyes protection: Wear appropriate protective eye glasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection: Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hands protection: Wear appropriate gloves to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES:**Appearance:** Paste**Color:** Blue**Odour:** Citrus Odor**Odour Threshold:** Not Available**pH Value:** Not Available**Specific Gravity:** (Water =1): 1.04**Percentage Volatile by Volume:** 85%**Melting Point/Melting Range:** 0° C, 32°F**Freezing Point:** Not Available**Boiling Point/Boiling Range:** 104°C, 220°F**Flash point:** Not Available**Evaporation Rate:** (Butyl Acetate=1): 0.9**Self-in flammability:** Not Available**Explosion limits:** Not Available**Vapour pressure:** (mm Hg): NA**Vapour density:** (Air=1): NA**Density at 20°C:** Not Available**Bulk Density:** Not Available**Relative density:** Not Available**Solubility:** Unlimited**Partition coefficient:** Not Available**Auto-ignition temperature:** Not Available**Decomposition temperature:** Not Available**Other Information:** No available data.

10. STABILITY AND REACTIVITY:**Chemical Stability:** This product is stable under normal conditions.**Hazardous Reactions:** Will not occur.**Conditions to Avoid:** Not Applicable.**Incompatible Materials:** Strong Oxidizers, Metals.**Hazardous Decomposition Products:** Small amounts of HCl.

11. TOXICOLOGICAL INFORMATION:**Acute Effects:** Overexposure to brazing and soldering fumes may result in symptoms like metal fume fever, dizziness, nausea, dryness or irritation of the nose, throat, skin or eyes.**Chronic Effects:** Overexposure to brazing and soldering fumes may affect pulmonary function.

12. ECOLOGICAL INFORMATION:**Toxicity:** No available data.**Persistence and Degradability:** No available data.**Bio accumulative Potential:** No available data.**Mobility in Soil:** No available data.**Other Adverse Effects:** No available data.Dispose of in a manner consistent with federal, state and local regulations.

13. DISPOSAL CONSIDERATIONS:

Product: For product elimination, consult recycling companies or appropriate local authority.

Package: May be disposed in approved landfills provided local regulations are observed.

14. TRANSPORT INFORMATION:

UN-number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class: Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for users: Not applicable

15. REGULATORY INFORMATION:

Safety, health and environment regulations/legislation specific for the substance or mixture: Read and understand the manufacturer's instructions, your employer's safety practices and the health and safety instructions on the label. Observe any federal and local regulations. Take precautions when welding and protect yourself and others.

Warning: Welding fumes and gases are hazardous to your health and may damage lungs and other organs. Use adequate ventilation. Wear correct hand, head, body and eye protection.

OSHA Hazardous Chemical According to 29 CFR 1910.1200: None

Carcinogenicity Classification (Components Present at 0.1% or More): Non-Carcinogenic

International Agency for Research on Cancer (IARC): Not Listed

American Conference of Governmental Industrial Hygienist (ACGIH): Not Listed

National Toxicology Program (NTP): Not Listed

Occupational Safety and Health Administration (OSHA): Not Listed

None of the components of this product are listed on the U.S. Toxic Substance Control Act.

Inventory or otherwise comply with TSCA Pre-manufacture notification requirements.

This product is RoHS compliant.

EPCRA/SARA Title III Toxic Chemicals

The following metallic components are listed as SARA 313 "Toxic Chemicals" and potential subject to annual SARA reporting. See Section 3 for weight percentage.

16. OTHER INFORMATION:

The information in this document is believed to be correct as of the date issued. However, no warranty is expressed to be implied regarding the accuracy or completeness of this information. This information and product are furnished on the condition that the person receiving them shall make his own determinations as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof.

This Safety Data Sheet complies with the EC directives 91/155/EEC and 93/112/EEC, including modifications 2001/58/EC.

Complies with OSHA Communication Standard 29 CFR 1910.1200 and Superfund Amendments and Reauthorization Act (SARA) of 1986 Public Law 99-499.

Hazard Statements:

H319 – Causes serious eye irritation.

R-Phrases:

R41 – Risk of serious damage to eyes.

S-Phrases:

S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.

End of Safety Data Sheet.