

MATERIAL SAFETY DATA SHEET

For Welding Consumables and Related Products
Conforms to OSHA Hazard Communication Standard
29CFR 1910.1200
Standard Must Be Consulted for Specific Requirements

MSDS NO: SGP
REVISED 3-2006

SECTION I -- IDENTIFICATION

Manufacturer/Supplier: Washington Alloy Company
Address: 7010-G Reames Road, Charlotte, NC 28216

Telephone No: 704-598-1325
Emergency No: 704-598-1325

Trade Name: Superflow Liquid Soldering Flux Classification: Commercial Spec. A-A-51145C Form B
Family: Soldering Flux (Inorganic Acid)

SECTION II - COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL
Ammonium Chloride	12125-02-9	4-15	NA
Hydrochloric Acid	7647-01-0	3-15	5PPM
Zinc Chloride	7646-85-7	30-45	1PPM

Unlisted percentages are non-hazardous stabilizers, activators, and water. None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.

SECTION III - HEALTH HAZARDS

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove to Fresh Air or Administer Oxygen. Call Physician.
Eyes: Flush with Water for 10 Minutes. Call Physician.
Skin: Wash Thoroughly with Water.
Ingestion: If Patient is Fully Conscious, Rinse Mouth.
Obtain Medical Attention Immediately.

Primary Routes of Entry into Body: Fume Inhalation, Ingestion, Skin, and Eyes.

Symptoms of Overexposure: Pulmonary Edema, Abdominal Pain, Vomiting, Eye Damage and Skin Burn.

Medical Conditions Generally Aggravated by Exposure: None Presently Known.

Chemical Listed as Carcinogen or Potential Carcinogen: None

OSHA Permissible Exposure Limit (PEL): 1 ppm

ACGIH Threshold Limit Value (TLV): 1 ppm

H.M.I.S. Information: HEALTH = 3 FLAMMABILITY = 0 REACTIVITY = 0

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: (Method Used): None **Flammable Limits:** Lower-NA, Upper-NA
Extinguishing Media: Dry Chemical, CO2 Foam /ABC **Auto Ignition Temperature:** None
Special Fire Fighting Procedures: Normal Caution When Using Chemicals
Unusual Fire and Explosion Hazards: Will Release Small Amounts of HCl upon Decomposition.

SECTION V - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Spilled: First Neutralize with Soda Ash or Sodium Bicarbonate, Dilute with Water and Dispose of in Accordance with EPA Regulations.

SECTION VI - STABILITY AND REACTIVITY

Stability: Product is Stable
Conditions to Avoid: Excessive Heat or Cold, Incompatible Materials
Incompatibility: Alkaline, Strong Oxidizing or Reducing Materials, Cyanides or Combustible Materials
Hazardous Decomposition Products: HCl, Zinc Chloride, Zinc Oxide, Ammonium.
Hazardous Polymerization: Will Not Occur

SECTION VII - CONTROL MEASURES

Ventilation: Yes **Eye Protection:** Safety Glasses/ Goggles / Face shields as needed
Protective Gloves: Rubber or neoprene , NIOSH Approved
Mechanical (General): Yes **Local Exhaust:** Yes
Respiratory Protection (Type): NIOSH Approved Respirator.
Other Protective Clothing or Equipment: Rubber Apron

SECTION VIII - HANDLING AND STORAGE

Storage: Store in Plastic Containers in Cool Area.
Handling Precautions: Safe Precautionary Practices to Avoid Spills and Exposure to Skin and Fumes
Work/Hygienic Practices: Avoid Contact with Skin, Eyes and Clothing.
Other Precautions: Keep Container Away From Excessive Heat.

SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: 104°C/220°F	Specific Gravity (Water = 1): 1.32
Vapor Pressure (mm Hg): NA	Percent Volatile by Volume: 64%
Vapor Density (Air = 1): NA	Evaporation Rate (Butyl Acetate = 1): 0.6
Melting Point: Liquid	Solubility in Water: Moderate to unlimited
Reactivity in Water: None	Appearance and Odor: Clear, odorless liquid

SECTION X - TRANSPORTATION AND DISPOSAL CONSIDERATIONS

D.O.T. Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, N.O.S.
Hazard Class: 8 **Packing Group:** III
Identification Number: UN 1760
Type D.O.T Label Required Information: Corrosive
Less than 1 gallon renamed and reclassified as Consumer Commodity –ORM-D (49CFR173.154C)
Waste Disposal Method: Dispose in Accordance with EPA Regulations.

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