

NATIONAL WELDING ALLOYS, INC. -- LIQUID SOLDERING FLUX

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MSDS Safety Information  
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FSC: 3439  
NIIN: 00-051-2834  
MSDS Date: 09/01/1995  
MSDS Num: CHQGH  
Product ID: LIQUID SOLDERING FLUX  
MFN: 03  
Responsible Party  
Cage: 0ACE2  
Name: NATIONAL WELDING ALLOYS, INC.  
Address: 1600 SOUTH CANAL STREET  
City: PITTSBURGH PA 15215  
Info Phone Number: 412-781-4255  
Emergency Phone Number: 412-781-4255  
Review Ind: Y  
Published: Y

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Contractor Summary  
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Cage: 0ACE2  
Name: NATIONAL WELDING ALLOYS INC  
Address: 1600 SOUTH CANAL STREET  
City: PITTSBURGH PA 15215-2624  
Phone: 412-781-4255, CHEMTREC 800-424-9300

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Item Description Information  
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Item Manager: S9G  
Item Name: FLUX,BRAZING  
Specification Number: AWSA 5 15-90  
Type/Grade/Class: NONE  
Unit of Issue: JR  
Quantitative Expression: 0000000011OZ  
UI Container Qty: 11 OZ/JAR  
Type of Container: JAR

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Ingredients  
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Cas: 7732-18-5  
RTECS #: ZC0110000  
Name: WATER  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED

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Cas: 7789-29-9  
RTECS #: TS6650000  
Name: POTASSIUM HYDROGEN FLUORIDE  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED

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Cas: 1332-77-0  
RTECS #: 1001388PB

Name: POTASSIUM BORATE  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED

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Cas: 11128-29-3  
RTECS #: 1005916PP  
Name: POTASSIUM PENTABORATE  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED

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Cas: 10043-35-3  
RTECS #: ED4550000  
Name: BORIC ACID  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: 10 MG BORATES/M3  
ACGIH TLV: 5 MG BORATES/M3

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Health Hazards Data  
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LD50 LC50 Mixture: NOT GIVEN FOR PRODUCT AS A WHOLE  
Route Of Entry Inds - Inhalation: YES  
Skin: YES  
Ingestion: NO  
Carcinogenicity Inds - NTP: NO  
IARC: NO  
OSHA: NO

Effects of Exposure: INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION. LARGE AMOUNTS MAY BE FATAL. MAY BE ABSORBED THROUGH SKIN RESULTING IN SYSTEMIC POISONING. INHALATION MAY CAUSE RESPIRATORY TRACT AND MUCOUS MEMBRANE IRRITATION. SKIN CONTACT MAY CAUSE FLUORIDE BURNS. EYE CONTACT CAUSES IRRITATION AND MAY CAUSE BURNS.

Explanation Of Carcinogenicity: THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Signs And Symptoms Of Overexposure: ABDOMINAL PAIN, DIARRHEA, VOMITING, EXCEEDS SALIVATION, THIRST, PERSPIRATION, PAINFUL SPASMS OF THE LIMBS, DEATH. RESPIRATORY TRACT IRRITATION, MUCOUS MEMBRANE IRRITATION, NASAL DISCHARGE, NOSEBLEEDS, COUGHING SORE THROAT, LABORED BREATHING, PULMONARY EDEMA, FLUORIDE BURNS, EYE IRRITATION, EYE IRRITATION, BURNS.

Medical Cond Aggravated By Exposure: PROLONGED OR REPEATED INHALATION AND INGESTION MAY CAUSE DELAYED INJURY INVOLVING THE KIDNEYS AND THE BLOOD, GASTROINTESTINAL, NERVOUS AND REPRODUCTIVE SYSTEMS.

First Aid: EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. CALL PHYSICIAN OR POISON CONTROL ASAP.

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Handling and Disposal  
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Spill Release Procedures: WEARING FULL PROTECTIVE CLOTHING, CONTROL SPILL SOURCE AND VENTILATE AREA. SOAK UP SPILL USING ABSORBENT. SCOOP INTO

CONTAINER.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Handling And Storage Precautions: STORE FLUX IN A COOL, DRY LOCATION AWAY FROM

INCOMPATIBLE MATERIALS. KEEP CONTAINER CLOSED. AVOID CONTACT WITH ANY DUSTS, MISTS OR FUMES.

Other Precautions: DO NOT EAT, DRINK OR SMOKE IN WORK AREA. USE WITH ADEQUATE VENTILATION.

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Fire and Explosion Hazard Information  
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Flash Point Text: NONFLAMMABLE

Lower Limits: NOT GIVEN

Upper Limits: NOT GIVEN

Extinguishing Media: ALCOHOL FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER SPRAY

Fire Fighting Procedures: FIRE FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL TANKS AND CONTAINERS EXPOSED TO FIRE

WITH WATER.

Unusual Fire/Explosion Hazard: NOT A FIRE OR EXPLOSION HAZARD. HOWEVER, TOXIC AND CORROSIVE FLUORIDE COMPOUNDS MAY BE RELEASED IN A FIRE SITUATION.

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Control Measures  
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Respiratory Protection: IF THE WORK STATION IS NOT PROPERLY VENTILATED TO EXHAUST ALL FUMES AND VAPORS, USE A NIOSH/MSHA APPROVED MASK.

Ventilation: MAINTAIN AIR FLOW AWAY FROM USER TO REMOVE ALL FUMES AND DUSTS, SO

THAT THE PEL IS NEVER EXCEEDED.

Protective Gloves: CHEMICAL/ACID IMPERVIOUS.

Eye Protection: CHEMICAL TIGHT SAFETY GOGGLES

Other Protective Equipment: CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT

SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices: WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health: DO NOT WEAR CONTACT LENSES.

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Physical/Chemical Properties  
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HCC: N1

B.P. Text: NOT GIVEN

M.P/F.P Text: NOT GIVEN

Decomp Text: NOT GIVEN

Vapor Pres: NOT GIVEN

Vapor Density: NOT GIVEN

Spec Gravity: 1.59

Viscosity: NOT GIVEN

Evaporation Rate & Reference: NOT GIVEN

Solubility in Water: COMPLETE

Appearance and Odor: SMOOTH WHITE PASTE WITH NO CHARACTERISTIC ODOR

Percent Volatiles by Volume: 70.7

Corrosion Rate: UNKNOWN

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Reactivity Data  
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Stability Indicator: YES  
Stability Condition To Avoid: TEMPERATURES ABOVE OR AT 225C.  
Materials To Avoid: STRONG ACIDS AND ALKALINES.  
Hazardous Decomposition Products: HYDROCHLORIC ACID, ZINC OXIDE.  
Hazardous Polymerization Indicator: NO  
Conditions To Avoid Polymerization: NONE. WILL NOT OCCUR.

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Toxicological Information  
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Ecological Information  
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MSDS Transport Information  
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Regulatory Information  
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Other Information  
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Transportation Information  
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Responsible Party Cage: OACE2  
Trans ID NO: 44691  
Product ID: LIQUID SOLDERING FLUX  
MSDS Prepared Date: 09/01/1995  
Review Date: 07/08/1998  
MFN: 3  
Net Unit Weight: 11 OUNCES  
Multiple KIT Number: 0  
Review IND: Y  
Unit Of Issue: JR  
Container QTY: 11 OZ/JAR  
Type Of Container: JAR

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Detail DOT Information  
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DOT PSN Code: ZZZ  
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail IMO Information  
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IMO PSN Code: ZZZ  
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

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Detail IATA Information  
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IATA PSN Code: ZZZ  
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail AFI Information  
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AFI PSN Code: ZZZ  
AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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HAZCOM Label

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Product ID: LIQUID SOLDERING FLUX  
Cage: 0ACE2  
Company Name: NATIONAL WELDING ALLOYS INC  
Street: 1600 SOUTH CANAL STREET  
City: PITTSBURGH PA  
Zipcode: 15215-2624  
Health Emergency Phone: 412-781-4255  
Label Required IND: Y  
Date Of Label Review: 07/08/1998  
Status Code: C

MFG Label NO: NONE  
Label Date: 07/08/1998  
Origination Code: F  
Eye Protection IND: YES  
Skin Protection IND: YES  
Signal Word: CAUTION  
Health Hazard: Slight  
Contact Hazard: Slight  
Fire Hazard: None  
Reactivity Hazard: None

Hazard And Precautions: STORE FLUX IN A COOL, DRY LOCATION AWAY FROM  
INCOMPATIBLE MATERIALS. KEEP CONTAINER CLOSED. AVOID CONTACT WITH ANY  
DUSTS,

MISTS OR FUMES. FIRST AID: EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE  
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ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL  
ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF  
WATER. CALL PHYSICIAN OR POISON CONTROL ASAP.

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