

10 FLUX

MATERIAL SAFETY DATA SHEET

01/11/00

MSDS PROVIDED BY:

STOODY INDUSTRIAL AND WELDING SUPPLY, INC.

3316 National Ave., San Diego, Ca. 92113

Phone: (619) 234-6750

MILITARY EMERGENCY RESPONSE NUMBER 1-800-851-8061

HARRIS WELCO -- 10 FLUX

MATERIAL SAFETY DATA SHEET

NSN: 343900N084935

Manufacturer's CAGE: 34920

Part No. Indicator: A

Part Number/Trade Name: 10 FLUX

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General Information

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Company's Name: HARRIS WELCO
Company's Street: 1051 YORK RD
Company's City: KINGS MOUNTAIN
Company's State: NC
Company's Country: US
Company's Zip Code: 28086
Company's Emerg Ph #: 800-424-9300 (CHEMTREC)
Company's Info Ph #: 704-739-6421
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SMJ
Date MSDS Prepared: 31JUL95
Safety Data Review Date: 13APR98
MSDS Serial Number: CGVGJ

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Ingredients/Identity Information

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Proprietary: NO
Ingredient: LITHIUM FLUORIDE
Ingredient Sequence Number: 01
NIOSH (RTECS) Number: OJ6125000
CAS Number: 7789-24-4
OSHA PEL: 2.5 MG/M3
ACGIH TLV: 2.5 MG/M3

Proprietary: NO
Ingredient: LITHIUM CHLORIDE
Ingredient Sequence Number: 02
NIOSH (RTECS) Number: OJ5950000
CAS Number: 7447-41-8
OSHA PEL: N/K (FP N)
ACGIH TLV: N/K (FP N)

Proprietary: NO
Ingredient: ZINC CHLORIDE (SARA 313) (CERCLA)
Ingredient Sequence Number: 03
Percent: <15.02
NIOSH (RTECS) Number: ZH1400000
CAS Number: 7646-85-7
OSHA PEL: 1 MG/M3
ACGIH TLV: 1 MG/M3/2STEL (FUME)

Proprietary: NO
Ingredient: POTASSIUM CHLORIDE
Ingredient Sequence Number: 04

10 FLUX

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NIOSH (RTECS) Number: TS8050000
CAS Number: 7447-40-7
OSHA PEL: N/K (FP N)
ACGIH TLV: N/K (FP N)

Proprietary: NO
Ingredient: SODIUM CHLORIDE
Ingredient Sequence Number: 05
NIOSH (RTECS) Number: VZ4725000
CAS Number: 7647-14-5
OSHA PEL: N/K (FP N)
ACGIH TLV: N/K (FP N)

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Physical/Chemical Characteristics

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Appearance And Odor: PINK POWDER WITH NO CHARACTERISTIC ODOR
Boiling Point: N/A
Vapor Pressure (MM Hg/70 F): N/A
Vapor Density (Air=1): N/A
Specific Gravity: 2.15
Evaporation Rate And Ref: N/A
Solubility In Water: SLIGHT

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Fire and Explosion Hazard Data

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Flash Point: N/A
Lower Explosive Limit: N/A
Upper Explosive Limit: N/A
Extinguishing Media: NOT APPLICABLE. USE MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).
Special Fire Fighting Proc: WEAR NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N). METAL HALIDE AND TOXIC FUMES PRODUCED.
Unusual Fire And Expl Hazrds: NONE.

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Reactivity Data

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Stability: YES
Cond To Avoid (Stability): NONE.
Materials To Avoid: STRONG ACIDS, CYANIDES, AND SULFIDES.
Hazardous Decomp Products: IN PRESENCE OF WATER AND HEAT, HCl AND HF WILL BE GIVEN OFF.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT.

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Health Hazard Data

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LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: ACUTE: INGEST: NAUS, VOMIT-CHEM BURN TO DIGESTIVE SYS & TOX EFTS DUE TO LITHIUM ION. INHAL: LITHIUM DUST & FUMES ABSORBED THRU LUNGS. SKIN: DERM, POSS CHEM BURN. EYES: IRRIT, & POSS BURN OF EYE SURFS. TARGET ORGAN: DANGER! MAY BE FATAL IF SWALLOWED/INHALED. CAUSES EYE & SKIN BURNS. TOX: CHRONIC EFTS: (EFTS OF OVEREXP)
Carcinogenicity - NTP: NO

10 FLUX

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Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NOT RELEVANT.

Signs/Symptoms Of Overexp: HLTH HAZ: COUGHING, CNS EFTS, ERYTHEMA, NAUS, KIDNEY EFTS. CHRONIC FLUORIDE ABSORPTION CAN RSLT IN OSSEOUS FLUOROSIS, INCRD RADIOGRAPHIC DENSITY OF BONES & MOTTILING OF TEETH. READ OSHA 29 CFR 1910.1000, JULY 1, 1980 (STD FOR FLUORIDES). EXPOS TO LITHIUM ION IS RELATIVELY NON-HAZ PER 2 NIOSH STUDIES (SUP DAT)

Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.

Emergency/First Aid Proc: INGESTION: CALL MD AND ADVISE OF INGREDIENTS.

REMOVE TO FRESH AIR. CALL MD IF FUMES OR DUST INHALED. ADVISE OF INGREDIENTS. EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES TO REMOVE ALL RESIDUE. GET MEDICAL ATTENTION.

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Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: IF A DRY POWDER OR IF MOLTEN, ALLOW TO SOLIDIFY. THEN SWEEP-UP AND DISPOSE TO A CHEMICAL WASTE AREA. FLUSH AREA WITH WATER TO CHEMICAL SEWER.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

Precautions-Handling/Storing: MATERIAL READILY ABSORBS WATER. KEEP FLUX CONTAINER SEALED.

Other Precautions: NONE SPECIFIED BY MANUFACTURER.
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Control Measures
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Respiratory Protection: IF WORK STATION IS NOT VENTILATED TO REMOVE ALL FUMES AND DUST, USE A NIOSH APPROVED MASK.

Ventilation: MAINTAIN AIR FLOW AWAY FROM USER TO EXHAUST ALL FUMES AND DUST, SO THAT THE TLV IS NEVER EXCEEDED.

Protective Gloves: CHEMICAL IMPERVIOUS GLOVES.

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES (FP N).

Other Protective Equipment: ANSI APPRVD EMER EYEWASH & DELUGE SHOWER (FP N). FULL PROT EQUIP AS USED IN WELDING OPERATIONS TO PREVENT SKIN CONTACT.

Work Hygienic Practices: REMOVE & PROFESSIONALLY WASH CONTAM CLTHG BEFORE REUSE. FOR MAX SFTY: BE CERTIFIED FOR, & WEAR NIOSH APPRVD (SUP DAT)

Suppl. Safety & Health Data: EFTS OF OVEREXP: WWE 90-036-122 & WWE 77-69-496. CHRONIC EXPOS TO LITHIUM MAY RSLT IN NEURO MUSC EFTS, HYPERACTIVE RESP AT ALL TIMES WHEN WELDING/BRAZING.
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Transportation Data
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Disposal Data
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Label Data
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Label Required: YES

Technical Review Date: 13APR98

Label Date: 13APR98

Label Status: G

Common Name: 10 FLUX

Chronic Hazard: YES

10 FLUX

MATERIAL SAFETY DATA SHEET

Signal Word: DANGER!

Acute Health Hazard-Severe: X

Contact Hazard-Severe: X

Fire Hazard-None: X

Reactivity Hazard-None: X

Special Hazard Precautions: CORROSIVE POISON. ACUTE: INGEST: NAUSEA, VOMITING-CHEMICAL BURN TO DIGESTIVE SYSTEM & TOXIC EFFECTS DUE TO LITHIUM ION. INHAL: LITHIUM DUST & FUMES ABSORBED THROUGH LUNGS. SKIN: DERMATITIS, POSSIBLE CHEMICAL BURN. EYES: IRRIT, & POSSIBLE BURN OF EYE SURFACES. TARGET ORGAN: DANGER! MAY BE FATAL IF SWALLOWED/INHALED. CAUSES EYE & SKIN BURNS. TOXICITY: CHRONIC EFFECTS: COUGHING, CNS EFFECTS, ERYTHEMA, NAUSEA, KIDNEY EFFECTS. CHRONIC FLUORIDE ABSORPTION CAN RESULT IN OSSEOUS FLUOROSIS, INCREASED RADIOGRAPHIC DENSITY OF BONES & MOTTILING OF TEETH. CHRONIC EXPOSURE TO LITHIUM MAY RESULT IN NEURO MUSCULAR EFFECTS, HYPERACTIVE REFLEXES & WEIGHT LOSS.

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

Label Name: HARRIS WELCO

Label Street: 1051 YORK RD

Label City: KINGS MOUNTAIN

Label State: NC

Label Zip Code: 28086

Label Country: US

Label Emergency Number: 800-424-9300 (CHEMTREC)