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MARCO CO., AMERICAN CHEMICAL AND FLUX PRODUCTS DIV. -- SOFT SOLDER FLUX ACTIVE ACID

-- 3439-01-069-9176

============= Product Identification =================

Product ID:SOFT SOLDER FLUX ACTIVE ACID

MSDS Date: 10/20/1999

FSC:3439

NIIN:01-069-9176 Status Code:A

MSDS Number: CLJQY === Responsible Party ===

Company Name: MARCO CO., AMERICAN CHEMICAL AND FLUX PRODUCTS DIV.

Address:5722 UNION PACIFIC AVENUE

City:LOS ANGELES

State:CA

ZIP:90022-5135 Country:US

Info Phone Num:213-723-0713

Emergency Phone Num:323 723-0711

CAGE:NO329

=== Contractor Identification ===

Company Name: MARCO CO., AMERICAN CHEMICAL AND FLUX PRODUCTS DIV.

Address:5722 UNION PACIFIC AVENUE

Box:City:LOS ANGELES

State:CA

ZIP:90022-5135 Country:US

Phone:213-723-0713

CAGE:NO329

Company Name: PERFORMANCE ALLOYS

Address:1212 HIGHLAND AVENUE Box:City:MANHATTAN BEACH

State:CA ZIP:90266 Country:US

Phone:310-546-8459

Contract Num:SP0490-01-M-XH39

CAGE:0A4S7

======= Composition/Information on Ingredients ======== Ingred Name:ZINC CHLORIDE CAS:7646-85-7 RTECS #:ZH1400000 OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 FUME ACGIH STEL:2 MG/M3 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ingred Name: AMMONIUM CHLORIDE CAS:12125-02-9 RTECS #:BP4550000 OSHA PEL:10 MG/M3 ACGIH TLV:10 MG/M3 FUMES ACGIH STEL:20 MG/M3 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS Ingred Name: HYDROCHLORIC ACID CAS:7647-01-0 RTECS #:MW4025000 OSHA PEL:C7 MG/M3;C5 PPM ACGIH TLV:5. 0 MG/M3 ACGIH STEL:C7.5 MG/M3;C5 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS Ingred Name: METHYL ORANGE CAS:547-58-0

RTECS #: DB6327000

============= Hazards Identification ========================

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: INHALATION: IRRITATES RESPIRATORY

SYSTEM. SKIN: IRRITATION, BURNS. EYES: IRRITATION, BURNS.

INGESTION: N/P.

**Explanation of Carcinogenicity:CA** 

RCINOGENICITY: NO; NTP: NO; OSHA
REGULATED: NO.
Effects of Overexposure:SKIN AND EYE IRRITATION.  Medical Cond Aggravated by Exposure:SKIN IRRITATION.
Medical Colid Aggiavated by Exposure. Sixtin Internation.
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First Aid:EYES:ZINC CHLORIDE CAN CAUSE BURNS. FLUSH WITH WATER. SKIN: ZINC DHLORIDE CAN CAUSE BURNS. FLUSH WITH WATER. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE PLENTY OF WATER OR MILK.
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Flash Point Method:TOC Flash Point:=105.C, 221.F Lower Limits:0 Upper Limits:0
Extinguishing Media:N/A. FIREFIGHTING SHOULD BE AIMED AT SURROUNDING MATERIALS.
Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR EYE PROTECTION AND SELF CONTAINED BREATHING UNITS IN ENCLOSED SPACE. Unusual Fire/Explosion Hazard:WHEN HEATED THE MATERIALS MAY RELEASE ZINC CHLORIDE AND ZINC OXIDE FUMES, THE FLUX MAY ALSO RELEASE
HYDROGEN CHLORIDE GAS AND WATER VAPOR.  ===================================
ease Measures ============
Spill Release Procedures:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. NEUTRALIZE WITH SODIUM CARBONATE OR TRI-SODIUM PHOSPHATE. CONTAIN SPILL, DISPOSE ACCORDING TO FEDERAL, STATE, OR LOCAL REGULATIONS.
Neutralizing Agent:SODIUM CARBONATE, TRI-SODIUM PHOSPHATE.
=========== Handling and Storage =============
Handling and Storage Precautions:STORE MATERIAL IN CLOSED CONTAINERS AT ROOM TEMPERATURES UNDER NORMALSTO RAGE AND HANDLING.
Other Precautions:TRAIN WELDERS TO KEEP HEAD OUT OF THE FUMES BY WEARING PROTECTIVE RESPIRATORS IN CONFINED AREAS.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:TO DETERMINE THE QUANTITY OF FUMES AND GAS IN WELDERS WORKING AREA, TAKE AN AIR SAMPLE UNDER THE WELDERS HOOD.

TRAIN WELDERS TO KEEP HEAD OUT OF THE FUMES BY WEARING PROTECTIVE RESPIRATORS IN CONFINED AREAS. WEAR RESPIRABLE FUME RESPIRATOR OR AIR SUPPL

IED RESPIRATOR IN CONFINED AREAS.  Ventilation:KEEP THE FUMES AND GASES BELOW TLV'S IN WORKERS AREA WITH PROPER VENTILATION.  Protective Gloves:GLOVES SHOULD BE WORN IN CASE OF SPLASHING.  Eye Protection:PROTECTIVE FACE SHIELD OR SAFETY GLASSES.  Other Protective Equipment:APRONS, ARM PROTECTORS, HATS.  Supplemental Safety and Health
========= Physical/Chemical Properties ==========
HCC:C1 Vapor Pres:0.75 PSIG pH:2.0-3.0 Solubility in Water:YES Appearance and Odor:RED LIQUID. NO ODOR.
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES INCOMPATIBLE WITH CYANIDES. Stability Condition to Avoid:STABLE MATERIAL IN CLOSED CONTAINERS AT ROOM TEMPERATURES UNDER NORMAL STORAGE AND HANDLING CONDITIONS. Hazardous Decomposition Products:CARBON MONOXIDE AND/OR CARBON DIOXIDE. Conditions to Avoid Polymerization:WILL NOT OCCUR.  ===================================
Waste Disposal Meth ods:DISCARD ANY PRODUCT RESIDUE, DISPOSABLE CONTAINER,OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
========= MSDS Transport Information ==========
Transport Information:DOT INFORMATION: CORROSIVE LIQUID SOLUTION; CLASS 8; UN 1840; CORROSIVE LABEL.
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