

ERICO PRODUCTS INC -- CADWELD ELECTRICAL WELDING MATERIAL -- 3439-00-196-6125  
===== Product Identification =====

Product ID:CADWELD ELECTRICAL WELDING MATERIAL

MSDS Date:03/20/1991

FSC:3439

NIIN:00-196-6125

Status Code:A

MSDS Number: CKLQY

=== Responsible Party ===

Company Name:ERICO PRODUCTS INC

Address:34600 SOLON RD

City:SOLON

State:OH

ZIP:44139-2631

Country:US

Info Phone Num:216-248-0100

Emer

gency Phone Num:216-248-0100

Resp. Party Other MSDS Num.:P/N: CA15 AND MSDS: 233C

CAGE:14045

=== Contractor Identification ===

Company Name:ERICO PRODUCTS INC

Address:34600 SOLON RD

Box:City:SOLON

State:OH

ZIP:44139-2631

Country:US

Phone:216-248-0100

CAGE:14045

===== Composition/Information on Ingredients =====

Ingred Name:COPPER OXIDE

CAS:1317-39-1

RTECS #:GL8050000

Ingred Name:ALUMINUM/COPPER

CAS:12608-74-1

Ingred Name:CALCIUM FLUORIDE

CAS:14542-23-5

Ingred Name:CALCIUM

SILICON  
CAS:37236-74-1

Ingred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
ACGIH TLV:2 MG/M3

Ingred Name:ALUMINUM /VANADIUM  
CAS:39458-13-4

Ingred Name:COPPER  
CAS:7440-50-8  
RTECS #:GL5325000  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:BURNS FROM CONTACT WITH REACTION OR

REACTION PRODUCTS, OR FROM HOT EQUIPMENT. DUST & FUMES ARE IRRITANT TO EYES & UPPER RESPIRATORY TRACT. INHALATION OF HIGH CONCENTRATIONS OF FRESHLY FORMED OXIDE FUMES & DUSTS IN THE RESPIRABLE PARTICLE SIZE RANGE CAN CAUSE INFLUENZA-LIKE ILLNESS TERMED METAL FUME FEVER. COPPER OXIDE DUST MAY BY REPEATED OR PROLONGED INHALATION OCCASIONALLY CAUSE ULCERATION & PERFORATION OF THE NASAL SEPTUM. LONG TERM EXPOSURE TO COPPER CONTAINING DUST MAY CAUSE ALLERGIC DERMATITIS. REPEATED EXPOSURE TO EXCESSIVE CONCENTRATIONS OF FLUORIDES OVER A PERIODS OF YEARS CAN CAUSE FLUOROSIS.  
Effects of Overexposure:SEE HEALTH HAZARDS.

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===== First Aid Measures =====

First Aid:STANDARD TREATMENT FOR BURNS IN EVENT OF CONTACT WITH MOLTEN METAL, SLAG, OR HOT EQUIPMENT. FOR INHALATION OF DUST, FUME, REMOVE FROM EXPOSURE, PROVIDE FRESH AIR, FLUSH EYES WITH WATER, CONSULT PHYSICIAN.

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Fire Fighting Measures =====

Extinguishing Media: DRY SAND OR FLOODING WITH LARGE AMOUNTS OF WATER.  
Unusual Fire/Explosion Hazard: SELF PROPAGATING HIGH TEMPERATURE REACTION WILL OCCUR IF HEATED ABOVE IGNITION (FLASH POINT) TEMPERATURE. GENERATES MOLTEN METAL, SLAG, AND DENSE DUSTY SMOKE. VOLATILE, COMBUSTIBLE DECOMPOSITION PRODUCTS PRODUCED FROM PLASTIC PACKAGING.

===== Accidental Release Measures =====

Spill Release Procedures: ALL UN  
USED, SPILLED MATERIALS MAY BE SWEEPED UP  
FOR DISPOSAL, IN ACCORDANCE WITH METHODS OUTLINED, AND FEDERAL,  
STATE AND LOCAL REGULATIONS.

===== Handling and Storage =====

Handling and Storage Precautions: MATERIAL SHOULD BE KEPT DRY AND STORED  
IN "NO SMOKING OR OPEN FLAME" AREA. RESTRICTION TO AUTHORIZED  
PERSONNEL IS RECOMMENDED.  
Other Precautions: FOR ADDITIONAL INFORMATION, SEE AMERICAN NATIONAL  
STANDARD, SAFETY IN WELDING & CUTTING, Z49.1 AND  
INSTRUCTIONS  
PROVIDED WITH MOLDS.

===== Exposure Controls/Personal Protection =====

Respiratory Protection: NORMAL USE PRECLUDES USE OF SPECIAL PROTECTION  
AS MATERIAL IS GENERALLY USED OUT OF DOORS, IN SMALL QUANTITIES,  
AND IS OF SHORT DURATION.  
Ventilation: LOCAL EXHAUST - MAY BE NECESSARY IF USED IN CONFINED SPACE.  
SPECIAL - USE OF NIOSH APPROVED RESPIRATOR FOR DUSTS & METAL FUMES  
IN LIEU OF LOCAL EXHAUST.  
Protective Gloves: RECOMMENDED FOR HANDLING HOT EQUIPMENT.  
Eye Protection: SAFETY GLASSES RECOMMENDED.  
Supplemental Safety and Health  
THIS PRODUCT CONTAINS 80 TO 90 PERCENT COPPER AND COPPER COMPOUNDS,  
WHICH ARE SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF TITLE  
III OF SARA AND 40 CFR 372.

===== Physical/Chemical Properties =====

HCC: N1  
Melt/Freeze Pt: =1093.3C, #####F  
Spec Gravity: 5.5 ((H2O=1)  
Solubility in Water: INSOLUBLE  
Appearance and Odor: GRAY-BLACK GRANULAR PARTICLES, ODORLESS.

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Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES  
POSSIBILITY OF VIOLENT REACTION IF MOISTURE PRESENT IN MOLDS OR BASE MATERIALS BEING WELDED AT TIME OF USE. TYPICAL OF PROBLEMS ASSOCIATED WITH MOLTEN METALS.

Stability Condition to Avoid: TEMPERATURES ABOVE IGNITION (FLASH POINT).

Hazardous Decomposition Products: NONE

Conditions to Avoid Polymerization: WILL NOT OCCUR

===== Disposal Considerations =====

Waste Disposal

Methods: 1. BURIAL IN GROUND, AFTER SUBMERGING IN MIXTURE OF SAND & WATER (CONTACT FACTORY). 2. DISPOSAL BY REACTION OF CONTROLLED QUANTITIES UNDER CONTROLLED CONDITIONS (CONTACT FACTORY).

===== Regulatory Information =====

SARA Title III Information: THIS PRODUCT CONTAINS 80%-90% COPPER AND COPPER COMPOUNDS, WHICH ARE SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF SARA AND 40 CFR 372.

===== Other Information =====

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