



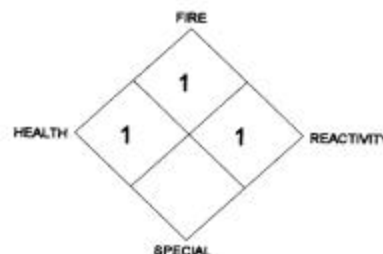
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 (440) 248-0100 • Fax: (440) 248-0723

24 Hour Response
 Chem Tel (1-800-255-3924)

MATERIAL SAFETY DATA SHEET

NFPA HAZARD RATING

- 4 EXTREME
- 3 HIGH
- 2 MODERATE
- 1 SLIGHT
- 0 INSIGNIFICANT



PAGE: 1 OF 3

PRODUCT FAMILY: CADWELD^â FERROUS FILLER MATERIAL
PRODUCTS INCLUDED: MATERIAL TYPE RBF

DATE PREPARED: 3/8/90

REVISED: 4/17/08

MSDS: 235M

1. INGREDIENTS

INGREDIENTS	CAS #	EXPOSURE LIMITS (mg/m ³)		WEIGHT PERCENT	TSCA INV.
		OSHA PEL	ACGIH TLV		
IRON OXIDE	1317-61-9	FUME 10.0	FUME 5.0	NOT > 75	YES
ALUMINUM ¹	7429-90-5	TOTAL DUST 15.0 RESPIRABLE FRACTION 5.0	DUST 10.0 FUME 5.0	NOT > 75	YES
CALCIUM FLUORIDE	7789-75-5	2.5 AS FLUORIDE	2.5 AS FLUORIDE	NOT > 5	YES
SILICON	7440-21-3	TOTAL DUST 10.0 RESPIRABLE FRACTION 5.0	DUST 10.0	NOT > 2	YES
SILICON CARBIDE	409-21-2	TOTAL DUST 10.0 RESPIRABLE FRACTION 5.0	DUST 10.0	NOT > 1	YES

¹ ALUMINUM CONTENT LESS THAN 20% FUME OR DUST

2. PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N/A
 VAPOR PRESSURE: N/A
 VAPOR DENSITY: N/A
 SOLUBILITY IN WATER: Insoluble, 0
 SPECIFIC GRAVITY (H₂O=1): 5
 MELTING POINT: @ 1500°F (815°C)
 EVAPORATION RATE (BUTYL ACETATE=1): N/A
 APPEARANCE AND ODOR: Gray-black granular particles, Odorless

M A T E R I A L S A F E T Y D A T A S H E E T

ERICO, INC.

34600 Solon Road

Solon, Ohio 44139

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PAGE: 2 OF 3

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3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): Self ignites above 1750°F (Indirect Heating).

FLAMMABLE LIMITS: LEL - N/A UEL - N/A

EXTINGUISHING MEDIA: Dry sand or flooding with large amounts of water.

SPECIAL FIRE FIGHTING PROCEDURES: Water application should be at a reasonable distance. Use of hand water buckets or hand storage pumps is not recommended.

UNUSUAL FIRE AND 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.

4. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Temperatures above ignition.

INCOMPATIBILITY (MATERIALS TO AVOID): Problems associated with molten metals.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur.

5. HEALTH HAZARD DATA

ROUTES OF ENTRY: Primary route of entry - Inhalation.

HEALTH HAZARDS: Burns from contact with reaction or reaction products, or from hot equipment. Dust and fumes are irritant to eyes and upper respiratory tract. Inhalation of high concentrations of freshly formed oxide fumes and dusts in the respirable particle size range can cause influenza-like symptoms termed metal fume fever.

CARCINOGENICITY: NTP - No IARC MONOGRAPHS - No OSHA REGULATED - No

SIGNS/SYMPTOMS OF EXPOSURE: (See Health Hazards)

EMERGENCY AND FIRST AID PROCEDURES: 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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6. PRECAUTIONS FOR SAFE HANDLING AND USE

ACTION TO TAKE FOR SPILLS/LEAKS: All unused, spilled materials may be swept up for disposal, in accordance with methods outlined below.

WASTE DISPOSAL METHOD: Contact factory for assistance or dispose of in accordance with Federal, State, and Local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Material should be kept dry and stored in "NO SMOKING OR OPEN FLAME" area. Restriction to authorized personnel is recommended.

7. CONTROL MEASURES

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 material is used in a confined space, however, in lieu of local exhaust, use NIOSH approved respirator for dusts and metal fumes.

PROTECTIVE GLOVES: Recommended for handling hot equipment.

EYE PROTECTION: Safety glasses recommended and caution to user to avoid direct eye contact with "flash" of light from reaction.

8. ADDITIONAL INFORMATION

This product contains compounds which are subject to reporting requirements of Section 313 of Title III of SARA and 40 CFR 372.