

Material Safety Data Sheet
89-250-820/B

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: ARCAIR TUFF COTE Electrode
CATALOG NUMBERS: 42-059-008
PRODUCT USE: Underwater Arc Metal Cutting
MANUFACTURERS NAME: TWECO Products, Inc. EMERGENCY PHONE #: (940) 566-2000
STREET ADDRESS: 2800 Airport Road
CITY: Denton STATE: Texas ZIP CODE: 76207
PREPARED BY: Terry Fulks PHONE NUMBER: (940) 566-2000
DATE PREPARED: July 1989 DATE REVISED: January 31, 2007

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%/RANGE	CAS NUMBER	OSHA PEL	ACGIH TLV
Base Metal: Steel	95+	Not Assigned	N.App	5mg/M3 Fume
Plasticized Vinyl	<5	Compound	N.App	N.App

When placed in underwater service, an electric arc is formed generating intense heat, ultra-violet (UV) rays, fumes and gases - as in conventional welding. When used as intended for underwater cutting, exposure to UV rays and electric shock possibility are the greatest sources of risk to health. When not in service, the electrodes pose no significant hazard.

SECTION 313. SUPPLIER INFORMATION

THIS PRODUCT DOES [] DOES NOT [X] CONTAIN TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372.

CAS NUMBER	CHEMICAL NAME	%
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SECTION 3 - PHYSICAL DATA

PHYSICAL STATE: Solid ODOR AND APPEARANCE: White plastic-coated tubular steel rod. No noticeable odor. VAPOR PRESSURE(mm Hg): N.App
VAPOR DENSITY(air=1): N.App EVAPORATION RATE: N.App BOILING POINT (F/C): N.App
FREEZING POINT(F/C): N.App SPECIFIC GRAVITY: N.App SOLUBILITY: Insoluble

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY: Yes [] No [X] IF YES, MEANS OF EXTINCTION: Does not burn readily FLASHPOINT(F/C) and METHOD: N.App FLAMMABLE LIMIT: N.App
LEL: N.App UEL: N.App UNUSUAL FIRE AND EXPLOSION HAZARDS: None

N.App.: NON APPLICABLE; N.AV.: NOT AVAILABLE; N.EST.: NOT ESTABLISHED
N.F.P.A. RATING SYSTEM: 0 - INSIGNIFICANT; 1 - SLIGHT; 2 - MODERATE;
3 - HIGH; 4 - EXTREME
Health = 1 Flammibility = 0 Reactivity = 0 Special = none
WHMIS CLASSIFICATION: CLASS "D" DIVISION 2 SUB-DIVISION "G"

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY: Yes No IF NO, CONDITIONS TO AVOID: N.App
INCOMPATIBILITY WITH OTHER SUBSTANCES: Yes No IF YES, WHICH
ONES? None known HAZARDOUS POLYMERIZATION: Will Occur Will Not Occur
CONDITIONS TO AVOID: N.App HAZARDOUS DECOMPOSITION PRODUCTS: Iron oxide
fumes are generated during cutting operations.

SECTION 6 - HEALTH HAZARD DATA

ROUTE OF ENTRY: SKIN CONTACT SKIN ABSORPTION EYE CONTACT
INHALATION INGESTION U.V. EXPOSURE EFFECTS OF ACUTE/CHRONIC
EXPOSURE TO PRODUCT: Exposure to UV radiation from the cutting arc can result
in keratoconjunctivitis, also known as welders flash. Symptoms include
inflammation, blurred vision and headache. CARCINOGENICITY: N.Est
SIGNS AND SYMPTOMS OF EXPOSURE: Inflammation, blurred vision, and headache
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.Est.
EMERGENCY AND FIRST AID PROCEDURES: Seek medical attention, preferably an
eye specialist.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

LEAK AND SPILL PROCEDURE: N.App WASTE DISPOSAL METHOD: Solid landfill if
local regulations allow. OTHER PRECAUTIONS: CUTTING WARNINGS: CAUTION!
ELECTRIC SHOCK CAN KILL. ARC RAYS CAN INJURE EYES. Train the operator not
to touch electrical parts. Wear an underwater suit.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): As appropriate for underwater cutting
GLOVES: Butyl Rubber RESPIRATOR: As required for underwater cutting operations
EYE: Filter lens for U.V. protection FOOTWEAR: N.Est CLOTHING: Suit
constructed of rubber to minimize likelihood for shock.
VENTILATION: As required for underwater operations LOCAL EXHAUST: N.App
SPECIAL: As required for underwater operations. MECHANICAL: as required
for underwater operations. WORK/HYGIENIC PRACTICES: As appropriate for
underwater cutting operations.

THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES. THIS IS NEITHER AN
EXPRESSED NOR IMPLIED PRODUCT SPECIFICATION. RECOMMENDED HANDLING PROCEDURES
AND HYGIENE ARE BELIEVED TO BE ACCURATE, HOWEVER, THESE RECOMMENDATIONS SHOULD
BE REVIEWED IN THE SPECIFIC CONTEXT OF INTENDED USE AND DETERMINED APPROPRIATE
BY THE USER.