

Material Safety Data Sheet  
\*89-250-821/B\*

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: ARCAIR SEA-CUT ELECTRODE  
CATALOG NUMBERS: 42-059-007 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	96+	Not Assigned	N.AP.	5mg/M3 Fume
Plasticized Vinyl	<4	Compound	N.AP.	N.AP.

When placed into underwater service, an electric arc is formed as in welding, generating intense heat, ultra-violet (UV) rays, fumes and gases as in conventional welding. When used as intended for underwater welding, exposure to UV rays and electrical shock potential are the most likely 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: Blue plastic-coated steel tube, no 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  
pH: 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 readily burn 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 [X] No [ ] IF NO, CONDITIONS TO AVOID: N.App  
INCOMPATIBILITY WITH OTHER SUBSTANCES: Yes [ ] No [X] IF YES,  
WHICH ONES? None known HAZARDOUS POLYMERIZATION: Will Occur [ ]  
Will Not Occur [X] CONDITIONS TO AVOID: N.App  
HAZARDOUS DECOMPOSITION PRODUCTS: Iron oxide fumes are generated during arc operations, but pose no problems for the diver/welder.

## SECTION 6 - HEALTH HAZARD DATA

ROUTE OF ENTRY: SKIN CONTACT [ ] SKIN ABSORPTION [ ] EYE CONTACT [ ]  
INHALATION [ ] INGESTION [ ] U.V. EXPOSURE [X]

EFFECTS OF ACUTE/CHRONIC EXPOSURE TO PRODUCT: Exposure to UV radiation from the cutting arc can result in keratoconjunctivitis, also known as welders flash.

CARCINOGENICITY: Not Listed SIGNS AND SYMPTOMS OF EXPOSURE: Inflammation, blurred vision and headache MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.App EMERGENCY AND FIRST AID PROCEDURES: Seek medical attention, preferably an eye specialist.

## SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

LEAK AND SPILL PROCEDURE: Pick up spent ends when cool

WASTE DISPOSAL METHOD: Solid landfill if local regulations allow.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Prevent premature rusting

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: For underwater use only GLOVES: Butyl Rubber  
RESPIRATOR: As required for underwater operations. EYE: Filter lens for U.V. protection, #12 preferred. FOOTWEAR: N.App. CLOTHING: Suit constructed of rubber to minimize likelihood for shock. OTHER: N.App.  
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: Top water personnel should avoid surfacing fumes.

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.