

Material Safety Data Sheet  
\*89-250-822/A\*

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: ARCAIR SEA-JET ELECTRODE  
CATALOG NUMBERS: 42-066-006  
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
Steel	95+	Not Assigned	5mg/m3 Fume	5mg/m3
Plasticized Vinyl	<5	Compound	N.AP.	N.AP.
Di(2-ethylhexyl)phthalate	0.75	117-81-7	5mg/m3	5mg/m3

When placed into underwater service, an electric arc is formed as in welding, generating intense heat, ultra-violet (UV) rays, fumes and gases. 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 [x] DOES NOT [ ] 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	%
117-81-7	Di(2-ethylhexyl)phthalate	0.75

CALIFORNIA PROPOSITION 65 CHEMICALS:

This product contains less than 0.8% Di(2-ethylhexyl)phthalate, a chemical known to the State of California to cause cancer.

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE: Solid ODOR AND APPEARANCE: Red plastic-coated tubular rod, no notable 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 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;

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3 - HIGH; 4 - EXTREME

Health = 1      Flammability = 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 cutting operations but pose no problem 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: Yes 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: Store in dry area  
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 FOOTWEAR: N.App CLOTHING: Suit constructed of rubber  
to minimize likelihood for shock  
VENTILATION: As required for underwater operations LOCAL EXHAUST: N.App.  
MECHANICAL: As required for underwater operations OTHER: N.AP.  
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.

