

**ARCAIR SEA DRAGON ELECTRODE
MATERIAL SAFETY DATA SHEET**

02/05/00

MSDS PROVIDED BY:

STOODY INDUSTRIAL AND WELDING SUPPLY, INC.

3316 National Ave., San Diego, CA 92113

Phone: (619) 234-6750

MILITARY EMERGENCY RESPONSE NUMBER 1 (800) 851-8061

Material Safety Data Sheet

89-250-953

SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: ARCAIR SEA DRAGON ELECTRODE

CATALOG NUMBERS: 42-075-005

PRODUCT USE: Underwater Arch Metal Cutting

MANUFACTURERS NAME: TWECO Products, Inc.

STREET ADDRESS: 4200 West Harry St.

CITY: Wichita STATE: Kansas

PREPARED BY: Dennis Wilson

DATE PREPARED: July 1995

EMERGENCY PHONE # : (316) 946-8308

P.O. BOX 12250

ZIP CODE: 67277

PHONE NUMBER (316) 946-8308

DATE REVISED: October 1997

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%/RANGE	CAS NUMBER	OSHA PEL	ACGIH TLV
Base Metal Steel	95+	Not Assigned	5mg/m3 Fume	5mg/m3
Plasticized Vinyl	<5	Compound	N. App	N. App

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 [] 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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CALIFORNIA PROPOSITION 65 CHEMICALS:

This product contains less than 0.01% Lead and 0.05% Chromium, chemicals known to State of California to cause cancer and reproductive toxicity.

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE: Solid ODOR AND APPEARANCE: Orange 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 Flammability = 0 Reactivity = 0 Special = none

WHMIS CLASSIFICATION: CLASS “D” DIVISION 2 SUB-DIVISION “G”

SIWS PROVIDES MSDS AS A COURTESY TO ENSURE ACCURATE AND CURRENT DATA, OBTAIN AND USE ONLY MSDS FROM MANUFACTURER

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SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY: Yes No IF NO, CONDITIONS TO AVOID: N. App
IMCOMPATIBILITY 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 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

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: Not listed 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.
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 (SPECIFY TYPE): As applicable 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
OTHER: N. App VENTILATION: As required for underwater operations.
MECHANICAL: As required for underwater operations
WORK/HYGIENIC PRACTICES: As appropriate for underwater cutting operations. NOTE: Tope 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.