

Speciality Welds



MATERIALS HEALTH, SAFETY ENVIRONMENTAL DATA SHEET (CEE/91/155) FOR 'BARRACUDA GOLD' UNDERWATER WELDING ELECTRODE:

1: IDENTIFICATION OF PRODUCT & COMPANY:

1.1 Product Identification:

Trade Name: Barracuda 'Gold'

Application: Underwater welding of steels.

1.2 Manufacture/Supplier:

Name: Speciality Welds

Address: Unit 1, Rawfolds Way Cleckheaton West Yorkshire BD19 5LJ (UK)

1.2 Office and emergency numbers: Tel/fax: +44 (0) 1274 879867, Mobile: +44 (0) 7974 931591

2: COMPOSITION & INFORMATION ABOUT CONSISTUENTS:

Core Wire: (55-65%) carbon steel

Flux coating: (35-45%) rutile alumina silica type containing nickel (<0.5%)

Waterproofing: (<2%) 4-methyl-2-pentanone (25-100%), Xylene (10-25%), butaone (1-10%)

3: RISKS:

Electric arc welding may create one or more of the following hazards:

Welding fumes and gases may be dangerous to health

Arc rays (UV) can injure eyes and burn exposed skin

Infa-red heat rays can injure eyes and skin

Electric shock can kill

4: FIRST AID INSTRUCTIONS:

Inhalation: bring affected person to fresh air, if breathing is difficult administer oxygen

In case of burning: flush with plenty of cold water for several minutes (at least 5-10 minutes)

In case of arc burn: call a physician

In case of eye contact: flush open eyelid with water for several minutes

5: FIRE FIGHTING INFORMATION:

The product is non-flammable: N/A

Extinguishing media: N/A

Extinguishing media to avoid special fire fighting procedures: N/A

Hazardous decomposition products: N/A

6: PRECAUTIONS TO BE TAKEN IN CASE MATERIAL IS RELEASED:

Personal protection: N/A

Cleaning methods: N/A

Waste disposal method: N/A

7: HANDLING & STORAGE

Handling: fume extraction needed if welding fumes may be released.

Storing: N/A

8: PROTECTION OF PERSONNEL:

Technical precautions: during welding the necessary precautions have to be taken: Use enough and adequate ventilation and local exhaust to keep fumes and gases from the welders breathing zone and the general area. Train the welder to keep his head out of the fumes. Wear protective clothing and welder protection equipment.

TLV-values:	(UK list 2002 – KB 11.03.02 – CEE91/322	CASnr	TLV
Welding fume		----	5 mg/m ³
Iron oxide (fume)		1309-37-1	5mg/m ³
Manganese & compounds		7439-96-5	0.2mg/m ³
Nickel (soluble compounds)		7440-02-0	0.1 mg/m ³
4-methyl (soluble compounds)		108-10-1	208 mg/m ³
Xylene		1330-20-7	440 mg/m ³
2-butaone		78-93-3	599 mg/m ³

Personal protection:

Speciality Welds



Respiration protection: use fume respirator or air supplied respirator when welding/cutting in confined space or in general work area when local exhaust does not keep exposure below TLV.
Eyes: Wear shaded filter lens. The choice of appropriate light filtration will be based on visual acuity and may vary from one individual to another, particularly under different current densities, materials and electrode diameter, suggested filter shade number for shielded metal arc welding is 9 – 12.
Hands: Wear protective gloves to prevent injuries from radiation, sparks and electrical shock.
Skin: Wear protective clothing to prevent injuries from radiation, sparks and electrical shock. Welder may not permit electrical live parts or electrodes to make contact with skin.

9: PHYSICAL AND CHEMICAL DATA:

Physical form:	solid, coated metallic rod	Explosion limits:
Odour:	odourless	LEL (lower): N/A
Colour:	grey	UEL (upper): N/A
pH:	N/A	Vapour pressure: N/A
Boiling point	N/A	Specific gravity:: N/A
Melting point	1400 – 1500 degrees C	Solubility in H ₂ O: Nil
Flash point:	N/A (method)	

10: STABILITY AND REACTIVITY:

Stability: stable
Conditions to avoid: N/A
Products to avoid: N/A
Hazardous decomposition products: these welding electrodes at normal ambient temperatures evolve no fumes or vapours but in use (cutting) fumes will be evolved (see section 8.)

11: TOXICOLOGICAL INFORMATION

Primary routes of entry: Inhalation of welding fumes
Symptoms/effects: Inhalation of excessive fume concentrations may result in following signs and symptoms: Respiratory tract irritation, dizziness, nausea and/or metal fume fever. Long-term overexposure to welding fumes can lead to lung diseases and affect pulmonary function.

12: ECOLOGICAL INFORMATION:

N/A

13: WASTE REMOVAL:

Discard any product or residue as ordinary waste (scrap) in an environmentally acceptable manner unless otherwise noted.

14: INFORMATION CONCERNING TRANSPORTATION:

Un-mr:	N/A	IMDG:	N/A
ADR/RID:	N/A	IATA:	N/A

15: LABELLING:

R-phrases: N/A
S-phrases: N/A

16: OTHER INFORMATION:

N/A = not applicable N/D = not determined N/D/A – no data available
This information only refers to the described product and is based on actual knowledge and experience known by us, because operating conditions are unknown to us and does not belong to our sphere of influence.
The product may not be used without written permission for a use other than mentioned in pt. 1.
This information may not be taken nor as a guarantee nor as a quality indication of our product.
This material safety information describes the product in relation with safety rules and is not meant as a technical description. At any time the user is responsible for taking the necessary precautions to fulfil all local laws and regulations.

Name: D.J. Keats

Date: 11 2002. Confirmed 2.2009

Rev1-12.10