

**Productname :** BIOWELD  
**Ref.Nr.:** BDS002567\_3\_20200506 (EN)

**Creationdate :** 06.05.20 Version : 1.1  
**Replaces:**

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**BIOWELD**  
Aerosol

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Welding Products

### 1.3. Details of the supplier of the safety data sheet

**CRC Industries UK Ltd.**  
Wylds Road  
Castlefield Industrial Estate  
TA6 4DD Bridgwater Somerset  
United Kingdom  
Tel.: +44 1278 727200  
Fax.: +44 1278 425644  
E-mail : hse.uk@crcind.com

### 1.4. Emergency telephone number

(+44)(0)1278 72 7200 (office hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

**Physical:** Aerosol, category 3  
Pressurised container: May burst if heated.  
Not flammable under normal conditions of use but contains flammable components  
(Testing on flammability in closed space, FEA X610-E, are negative)  
Classification is based on test data.

**Health:** Not classified  
Classification based on calculation method.

**Environment:** Not classified  
Classification based on calculation method.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No 1272/2008



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**Signal word:** Warning  
**Hazard statement(s):** H229 : Pressurised container: May burst if heated.  
**Precautionary statement(s):** P102 : Keep out of reach of children.  
P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P251 : Do not pierce or burn, even after use.  
P410/412 : Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
**Supplemental Hazard information:** 18 % by mass of the contents are flammable.  
Contains:  
1,2-benzisothiazol-3(2H)-one  
May produce an allergic reaction.

### 2.3. Other hazards

No information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

### 3.2. Mixtures

Hazardous ingredient	Registration number	CAS-nr.	EC-nr	w/w %	Hazard Class and Category	Hazard statement	Notes
dimethyl ether	01-2119472128-37	115-10-6	204-065-8	10-25	Flam. Gas 1, Press. Gas	H220,H280	A
triethanolamine	01-2119486482-31	102-71-6	203-049-8	<1	-	-	B
1,2-benzisothiazol-3(2H)-one	-	2634-33-5	220-120-9	<0.05	Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2	H330,H302,H315,H318,H317,H400,H411	X,R
<b>Explanation notes</b>							
A : substance with Community workplace exposure limit							
B : substance with national established workplace exposure limit							
R : substance in plant protection or biocidal product regarded as being registered (art.15 REACH Regulation No 1907/2006)							
X : SCL (specific concentration limit)in accordance with art.10 of CLP Regulation No 1272/2008							

(\* Explanation phrases : see chapter 16)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures



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**Contact with eyes :** If substance has got into eyes, immediately wash out with plenty of water  
**Contact with skin :** Wash with plenty of soap and water.  
**Inhalation :** Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**Ingestion :** If swallowed accidentally, do not induce vomiting and seek medical advice.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Inhalation :** No adverse health effects expected  
**Ingestion :** May cause gastrointestinal disturbances  
Symptoms : sore throat, abdominal pain, nausea, vomiting  
**Skin contact :** May cause irritation.  
**Eye contact :** May cause irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**General Advice :** In case of accident or if you feel unwell, seek medical advice (show the label where possible)  
If symptoms persist always call a doctor

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

water, foam, carbon dioxide or dry agent

#### 5.2. Special hazards arising from the substance or mixture

Aerosols may explode if heated above 50°C  
Forms hazardous decomposition products  
CO,CO2

#### 5.3. Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water  
In case of fire, do not breathe fumes

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Shut off all ignition sources  
Ensure adequate ventilation  
Wear suitable protective clothing and gloves.

#### 6.2. Environmental precautions

Do not allow to enter public sewers and watercourses



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### 6.3. Methods and material for containment and cleaning up

Absorb spillage in suitable inert material  
 Wash spill site with water and detergent

### 6.4. Reference to other sections

For further information see section 8

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Keep away from heat and sources of ignition  
 Do not spray on a naked flame or incandescent material.  
 Do not pierce or burn aerosols, even after use.  
 Do not breathe aerosols or vapours.  
 Ensure adequate ventilation  
 Avoid contact with skin and eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
 Store in a well-ventilated place.  
 Store frost free  
 Keep out of reach of children.

### 7.3. Specific end use(s)

Welding Products

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits :

Hazardous ingredient	CAS-nr.	method	
<b>EU established exposure limits:</b>			
dimethyl ether	115-10-6	TWA	1000 ppm
<b>National established exposure limits, United Kingdom</b>			
dimethyl ether	115-10-6	TWA	400 ppm
		STEL	500 ppm
<b>National established exposure limits, Ireland</b>			
triethanolamine	102-71-6	TWA	5 mg/m3
		STEL	-
dimethyl ether	115-10-6	TWA	1000 ppm

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		STEL	-
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## 8.2. Exposure controls

<b>Control procedures :</b>	Ensure adequate ventilation Keep away from heat and sources of ignition
<b>Personal protection :</b>	Take precautions to avoid contact with skin and eyes when handling the product. Ensure adequate ventilation
<b>inhalation :</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
recommended respiratory protection:	Air purifying respirator equipped with organic gas/vapor cartridge (type A)
<b>hands and skin :</b>	For incidental contact with the product wear chemical-resistant gloves (standard EN 374). The use of disposable gloves is acceptable provided that they are changed immediately after a splash or spill. In all cases handle and use the product in accordance with good industrial hygiene practices.
Recommended gloves:	Nitrile
<b>eyes :</b>	Wear safety eyewear according to EN 166.
<b>Environmental protection:</b>	Avoid release to the environment. Collect spillage.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

(for aerosols data for the product without propellant)

<b>Appearance : physical state :</b>	DME propelled liquid.
<b>colour :</b>	Milky.
<b>odour :</b>	Characteristic odor.
<b>pH :</b>	8.5-9.5
<b>Boiling point/range :</b>	Not available.
<b>Flash point :</b>	none °C (Closed Cup)
<b>Evaporation rate :</b>	Not applicable.
<b>Explosion limits : upper limit :</b>	Not available.
<b>lower limit :</b>	Not available.
<b>Vapour pressure :</b>	Not available.
<b>Relative density :</b>	0.99 g/cm <sup>3</sup> (@ 20°C).
<b>Solubility in water :</b>	Soluble in water
<b>Auto-ignition :</b>	> 200 °C
<b>Viscosity :</b>	> 7 mPa.s (@ 40°C).

### 9.2. Other information

<b>VOC = volatile organic compounds</b>	170 g/l
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity



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No hazardous reactions known if used for its intended purpose

#### 10.2. Chemical stability

Stable

#### 10.3. Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

#### 10.4. Conditions to avoid

Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.  
Avoid overheating  
Store frost free

#### 10.5. Incompatible materials

Strong oxidising agent

#### 10.6. Hazardous decomposition products

CO,CO2

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<b>acute toxicity:</b>	based on available data the classification criteria are not met
<b>skin corrosion/irritation:</b>	based on available data the classification criteria are not met
<b>serious eye damage/irritation:</b>	based on available data the classification criteria are not met
<b>respiratory or skin sensitisation:</b>	based on available data the classification criteria are not met
<b>germ cell mutagenicity:</b>	based on available data the classification criteria are not met
<b>carcinogenicity:</b>	based on available data the classification criteria are not met
<b>toxicity for reproduction:</b>	based on available data the classification criteria are not met
<b>STOT-single exposure:</b>	based on available data the classification criteria are not met
<b>STOT repeated exposure:</b>	based on available data the classification criteria are not met
<b>aspiration hazard:</b>	based on available data the classification criteria are not met

#### Information on likely routes of exposure:

<b>Inhalation :</b>	No adverse health effects expected
<b>Ingestion :</b>	Ingestion is unlikely to occur
<b>Skin contact :</b>	May cause irritation.
<b>Eye contact :</b>	May cause irritation.

#### Toxicological data :



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Hazardous ingredient	CAS-nr.	method	
triethanolamine	102-71-6	LD50 oral rat	6400 mg/kg
		LC50 inhal.rat	1.8 mg/m3
		LD50 derm.rabit	> 2000 mg/kg
dimethyl ether	115-10-6	LC50 inhal.rat	309 mg/l

## SECTION 12: Ecological information

### 12.1. Toxicity

Not classified

### Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
triethanolamine	102-71-6	LC50 fish	1460 mg/l
		EC50 daphnia	609.9 mg/l
dimethyl ether	115-10-6	IC50 algae	154.9 mg/l
		LC50 fish	4.1 mg/l
		EC50 daphnia	4.4 mg/l

### 12.2. Persistence and degradability

Readily biodegradable - OECD 301B

### 12.3. Bioaccumulative potential

No experimental data available

### 12.4. Mobility in soil

Soluble in water

### 12.5. Results of PBT and vPvB assessment

No information available

### 12.6. Other adverse effects

No experimental data available  
GWP (global warming potential): 0

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods



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Replaces:

National regulations : Disposal should be in accordance with local, state or national legislation

## SECTION 14: Transport information

### 14.1. UN number

UN-number : 1950

### 14.2. UN proper shipping name

Proper shipping name: AEROSOLS

### 14.3. Transport hazard class(es)

Class: 2.2  
ADR/RID - Classification code: 5A

### 14.4. Packing group

Packing group: Not applicable.

### 14.5. Environmental hazards

ADR/RID - Environmentally hazardous: No  
IMDG - Marine pollutant: No  
IATA/ICAO - Environmentally hazardous: No

### 14.6. Special precautions for user

ADR/RID - Tunnelcode: (E)  
IMDG - Ems: F-D, S-U  
IATA/ICAO - PAX: 203  
IATA/ICAO - CAO: 203

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The Safety Data Sheet is compiled according to the current European requirements.  
Regulation (EC) No 1907/2006 (REACH)  
Regulation (EC) No 1272/2008 (CLP)  
Dir. 2013/10/EU, 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.





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## 15.2. Chemical safety assessment

No information available

## SECTION 16: Other information

\*Explanation hazard statements: - : -

H220 : Extremely flammable gas.  
H280 : Contains gas under pressure; may explode if heated.  
H302 : Harmful if swallowed.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H330 : Fatal if inhaled.  
H400 : Very toxic to aquatic life.  
H411 : Toxic to aquatic life with long lasting effects.

acronyms and synonyms:

TWA = time weight average  
STEL = short time exposure limit  
VOC = volatile organic compounds  
PBT = persistant bioaccumulative toxic  
vPvB = very persitant very bioaccumulative

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

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