

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
Explanation notes							
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	
EU established exposure limits:			
dimethyl ether	115-10-6	TWA	1000 ppm
National established exposure limits, United Kingdom			
dimethyl ether	115-10-6	TWA	400 ppm
		STEL	500 ppm
National established exposure limits, Ireland			
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

Control procedures :	Ensure adequate ventilation Keep away from heat and sources of ignition
Personal protection :	Take precautions to avoid contact with skin and eyes when handling the product. Ensure adequate ventilation
inhalation :	In case of insufficient ventilation, wear suitable respiratory equipment.
recommended respiratory protection:	Air purifying respirator equipped with organic gas/vapor cartridge (type A)
hands and skin :	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
eyes :	Wear safety eyewear according to EN 166.
Environmental protection:	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)

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

9.2. Other information

VOC = volatile organic compounds	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

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

Information on likely routes of exposure:

Inhalation :	No adverse health effects expected
Ingestion :	Ingestion is unlikely to occur
Skin contact :	May cause irritation.
Eye contact :	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 = persistent bioaccumulative toxic
vPvB = very persistent very bioaccumulative

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

The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties. Apart from any fair dealing for purposes of study, research and review of health, safety and environmental risks, no part of these documents may be reproduced by any process without written permission from CRC.