

SAFETY DATA SHEET

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

1.1. Product identifier Trade name or designation of the mixture	BIOWELD
Registration number	_
Synonyms	None.
Product code	BDS002567AE
Issue date	05-December-2022
Version number	1.0
Revision date	05-December-2022
1.2. Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	Welding Products
Uses advised against	None known.
1.3. Details of the supplier of the	e safety data sheet
Company name	CRC Industries UK Ltd.
Address	Wylds Road
	Castlefield Industrial Estate
	TA6 4DD Bridgwater Somerset
	United Kingdom
Telephone	+44 1278 727200
Fax	+44 1278 425644
E-mail	hse.uk@crcind.com
Website	www.crcind.com
Company name	CRC Industries Europe bv
Address	Touwslagerstraat 1
	9240 Zele
	Belgium
Telephone	+32(0)52/45.60.11
Fax	+32(0)52/45.00.34
E-mail	hse@crcind.com
Website	www.crcind.com
1.4 Emorgonov tolonhono	Tel (+44)(0)1278 72 7200 (office hours: 9,17h CMT)

1.4. Emergency telephone number

Tel.:(+44)(0)1278 72 7200 (office hours: 9-17h GMT)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards Aerosols	Category 3	H229 - Pressurized container: May burst if heated.
2.2. Label elements		
Label according to Regulatio	n (EC) No. 1272/2008 as amended	
Hazard pictograms	None.	
Signal word	Warning	
Hazard statements		
H229	Pressurized container: May burst if heated.	

Precautionary statements	
Prevention	
P102 P210 P251	Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not pierce or burn, even after use.
Response	Not assigned.
Storage	
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Not assigned.
Supplemental label information	18% by mass of the contents are flammable. EUH208 - Contains 1,2-benzisothiazol-3(2H)-one;1,2-benzisothiazolin-3-one. May produce an allergic reaction.
2.3. Other hazards	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Dimethyl ether	10 - 25	115-10-6 204-065-8	-	603-019-00-8	#
Classification:	Press. Ga	s;H280			
1,2-benzisothiazol-3(2H)-one;1,2-ben zisothiazolin-3-one	<0.05	2634-33-5 220-120-9	01-2120761540-60	613-088-00-6	
		kin Sens. 1;H317, Aq	2;H330, Skin Irrit. 2;H315, E uatic Acute 1;H400, Aquatic		

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments Occupational Exposure Limits for constituents are listed in Section 8. The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
4.1. Description of first aid meas	sures
Inhalation	If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	In the unlikely event of swallowing contact a physician or poison control centre.
4.2. Most important symptoms and effects, both acute and delayed	Exposure may cause temporary irritation, redness, or discomfort.
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptomatically.
SECTION 5: Firefighting m	neasures
General fire hazards	Not available.
5.1. Extinguishing media	
Suitable extinguishing media	Dry powder. Carbon dioxide (CO2).
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire.

media

5.3. Advice for firefighters Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Containers should be cooled with water to prevent vapour pressure build up.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1.	Personal	precautions,	protective	equipment	and eme	rgency	proced	ures

For non-emergency personnel	Wear appropriate personal protective equipment.
For emergency responders	Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Do not re-use empty containers. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store away from incompatible materials (see Section 10 of the SDS). Storage class (TRGS 510): 2B (Aerosol dispensers and lighters)
7.3. Specific end use(s)	Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	
Dimethyl ether (CAS 115-10-6)	STEL	958 mg/m3	
		500 ppm	
	TWA	766 mg/m3	
		400 ppm	
ological limit values	No biological exposure limits noted	or the ingredient(s).	

Bio

Follow standard monitoring procedures.

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Recommended monitoring
procedures
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Derived no effect levels (DNELs)

General	population
General	population

Components	Value	Assessment factor	Notes
1,2-benzisothiazol-3(2H)-one;1,2-benziso	thiazolin-3-one (CAS 2634-33-	5)	
Long-term, Systemic, Dermal	0.345 mg/kg bw/day	200	Repeated dose toxicity
Long-term, Systemic, Inhalation	1.2 mg/m3	50	Repeated dose toxicity
<u>Workers</u>			
Components	Value	Assessment factor	Notes
1,2-benzisothiazol-3(2H)-one;1,2-benziso	thiazolin-3-one (CAS 2634-33-	5)	
Long-term, Systemic, Dermal	0.966 mg/kg bw/day	100	Repeated dose toxicity

Material name: BIOWELD - Ambersil - europe

BDS002567AE Version #: 1.0 Revision date: 05-December-2022 Issue date: 05-December-2022

Long-term, Systemic, Inh	alation	6.81 mg/m3	25	Repeated dose toxicity
Predicted no effect concentrations (PNECs)	Not available	ð.		
8.2. Exposure controls				
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.			
Individual protection measures, such as personal protective equipment				
General information		tection equipment shou ith the supplier of the pe		ng to the CEN standards and in ipment.
Eye/face protection	Use eye pro	tection conforming to EN	l 166. Wear safety gla	asses with side shields (or goggles).
Skin protection				
- Hand protection	immediately should be us	after a splash or spill ma	ay occur. If intentiona	d be sufficient provided they are changed l contact is expected reusable gloves total duration of the product use. Nitrile
- Other	Not available) .		
Respiratory protection		sufficient ventilation, wea our cartridge. (Filter type	1 3	equipment. Chemical respirator with
Thermal hazards	Wear approp	priate thermal protective	clothing, when neces	sary.
Hygiene measures	after handlin		e eating, drinking, an	l hygiene measures, such as washing d/or smoking. Routinely wash work s.
Environmental exposure controls	with the requ	irements of environments of environments of environments of environments of the procession of the proc	tal protection legislat	ould be checked to ensure they comply on. Fume scrubbers, filters or be necessary to reduce emissions to

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Aerosol.
Colour	Milky.
Odour	Characteristic odor.
Odour threshold	Not available.
рН	8.5 - 9.5
Melting point/freezing point	0 °C (32 °F) estimated
Initial boiling point and boiling range	100 °C (212 °F) estimated
Flash point	101.0 °C (213.8 °F) Open cup
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.99 g/cm3 at 20°C
Solubility(ies)	
Solubility (water)	Soluble in water
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	> 200 °C (> 392 °F)
Decomposition temperature	Not available.
Viscosity	> 7 mPa·s at 40°C
Explosive properties	Not explosive.
Material name: BIOWELD - Ambersil -	europe

Oxidising properties	Not oxidising.		
9.2. Other information			
Aerosol spray enclosed spa			
Deflagration density	> 300 s/m ³		
Aerosol spray ignition distance	< 15 cm		
VOC	170 g/l		
SECTION 10: Stability and	reactivity		
10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.		
10.2. Chemical stability	Material is stable under normal conditions.		
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.		
10.4. Conditions to avoid	Avoid high temperatures.		
10.5. Incompatible materials	Strong oxidising agents.		
10.6. Hazardous decomposition products	Carbon oxides.		
SECTION 11: Toxicologic	al information		
General information	Occupational exposure to the substance or mixture may cause adverse effects.		
Information on likely routes of e	xposure		
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.		
Skin contact	May cause an allergic skin reaction.		
Eye contact	Based on available data, the classification criteria are not met.		
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.		
Symptoms	Exposure may cause temporary irritation, redness, or discomfort.		
11.1. Information on toxicologic			
Acute toxicity	Based on available data, the classification criteria are not met.		
Acute toxicity Components	Based on available data, the classification criteria are not met. Species Test Results		
-			
Components			
Components Dimethyl ether (CAS 115-10-6) <u>Acute</u> Inhalation	Species Test Results		
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SECTION 12: Ecological information

12.1. Toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results	
1,2-benzisothiazol-3(2H)-one;1,2	-benzisothiaz	colin-3-one (CAS 2634-33-5)		
Aquatic				
Acute				
Crustacea	LC50	Harpacticoid copepod (Nitocra spinipes)	>= 21 - <= 30 mg/l, 96 hours	
Fish	LC50	Bleak (Alburnus alburnus)	>= 8 - <= 13 mg/l, 96 hours	
Dimethyl ether (CAS 115-10-6)				
Aquatic				
Acute				
Crustacea	EC50	Daphnia	4.4 mg/l	
Fish	LC50	Fish	4.1 mg/l	
12.2. Persistence and degradability	No data is	No data is available on the degradability of any ingredients in the mixture.		
12.3. Bioaccumulative potentia	I			
Partition coefficient n-octanol/water (log Kow)		0.4		
Dimethyl ether	N	0.1		
Bioconcentration factor (BCF)		Not available.		
12.4. Mobility in soil		No data available.		
12.5. Results of PBT and vPvB assessment		This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.		
12.6. Other adverse effects	The produ potential. GWP: 0			
Substance Global Warming amended	g Potential p	er (Annex IV), Regulation 517/2014/EU on fl	uorinated greenhouse gases, as	

Dimethyl ether (CAS 115-10-6)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

1

SECTION 14: Transport information

	14.1. UN number	UN1950
	14.2. UN proper shipping name	AEROSOLS, asphyxiant
	14.3. Transport hazard class	es)
	Class	2.2
	Subsidiary risk	-
	Label(s)	2.2
	Hazard No. (ADR)	Not assigned.
	Tunnel restriction code	E
	ADR/RID - Classification	5A
	code:	
	14.4. Packing group	Not assigned.
	14.5. Environmental hazards	No.
	14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
	for user	
RID	1	

14.2. UN proper shipping AEROSOLS, asphyxiant name 14.3. Transport hazard class(es) 2.2 Class Subsidiary risk 2.2 Label(s) 14.4. Packing group Not assigned. 14.5. Environmental hazards No. Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user ADN UN1950 14.1. UN number 14.2. UN proper shipping AEROSOLS, asphyxiant name 14.3. Transport hazard class(es) 2.2 Class Subsidiary risk 2.2 Label(s) Not assigned. 14.4. Packing group 14.5. Environmental hazards No. 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user ΙΑΤΑ UN1950 14.1. UN number Aerosols, non-flammable 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 2.2 Subsidiary risk 14.4. Packing group Not assigned. 14.5. Environmental hazards No. **ERG Code** 2L Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user Other information Allowed with restrictions. Passenger and cargo aircraft Allowed with restrictions. Cargo aircraft only IMDG 14.1. UN number UN1950 Aerosols, non-flammable 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 2.2 Subsidiary risk 14.4. Packing group Not assigned. 14.5. Environmental hazards Marine pollutant No. F-D, S-U EmS Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user Not established. 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code



SECTION 15: Regulatory information

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

Retained direct EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

- Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended Not listed
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Dimethyl ether (CAS 115-10-6)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

1,2-benzisothiazol-3(2H)-one;1,2-benzisothiazolin-3-one (CAS 2634-33-5) Dimethyl ether (CAS 115-10-6)

Other regulations

This product is classified and labelled in accordance with the retained CLP Regulation (EC) No 1272/2008, as amended for Great Britain. This Safety Data Sheet is compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety

No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).
ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).
CAS: Chemical Abstract Service.
Ceiling: Short Term Exposure Limit Ceiling value.
CEN: European Committee for Standardization.
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

GWP: Global Warming Potential.

	 IATA: International Air Transport Association. IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk. IMDG: International Maritime Dangerous Goods. MAC: Maximum Allowed Concentration. MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG). MARPOL: International Convention for the Prevention of Pollution from Ships. PBT: Persistent, bioaccumulative and toxic. REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals). RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer). RID: Regulations concerning the International Carriage of Dangerous Goods by Rail. STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Limit Value. VME: Exposure Average Value. VOC: Volatile organic compounds. vPVB: Very persistent and very bioaccumulative.
References	STEL: Short-term Exposure Limit. Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any statements, which are not written out in full under sections 2 to 15	 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.
Revision information	None.
Training information	Follow training instructions when handling this material.
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