Regulation EC No 1907/2006 Art.31

Productname: MZ-90 Creationdate: 11.05.20 Version: 2.1

Ref.Nr.: BDS002331_3_20200511 (EN) **Replaces:** BDS002331_20200401

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

1.1. Product identifier

MZ-90

Aerosol

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

Paints

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: Aerosols, category 1

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Classification is based on test data.

Health: Eye irritation, category 2

Causes serious eye irritation.

Specific target organ toxicity - single exposure, category 3

May cause drowsiness or dizziness.

Specific Target Organ Toxicity - Repeated Exposure Category 2

May cause damage to organs through prolonged or repeated exposure.

Classification based on calculation method.

Environment: Hazardous to the aquatic environment, acute category 1

Very toxic to aquatic life.



1/11

CRC Industries UK Limited

Wylds Road, Castlefield Industrial Estate, Bridgwater, Somerset, TA6

4DD

Tel: +44 (0)1278 727200 Fax: +44 (0)1278 425644 web: www.actioncan.com

Regulation EC No 1907/2006 Art.31

MZ-90 Productname:

Creationdate: 11.05.20 Version: 2.1 Ref.Nr.: Replaces: BDS002331 20200401 BDS002331 3 20200511 (EN)

Hazardous to the aquatic environment, chronic category 1

Very toxic to aquatic life with long lasting effects.

Classification based on calculation method.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Product identifier: Contains:

Hazard pictogram(s):









Signal word: Danger

Hazard statement(s): H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

H319: Causes serious eve irritation.

H336: May cause drowsiness or dizziness.

H373: May cause damage to organs through prolonged or repeated exposure

H410: Very toxic to aquatic life with long lasting effects.

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.

P211: Do not spray on an open flame or other ignition source.

P251: Do not pierce or burn, even after use. P261-1: Avoid breathing vapours/spray.

P280 : Wear protective gloves/protective clothing/eye protection/face

P337/313: If eye irritation persists: Get medical advice/attention.

P333/313: If skin irritation or rash occurs: Get medical advice/attention. P410/412: Protect from sunlight. Do not expose to temperatures exceeding

50°C/122°F.

P501-2: Dispose of contents/container to an authorised waste collection point.

Supplemental Hazard information:

Contains:

2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime

May produce an allergic reaction.

Dir. 2004/42/EC on the limitation of emmissions of volatile organic compounds (VOC) of organic solvents in certain paints and varnishes and vehicle refinishing products

Cat.II B(e) VOC max 840 g/L < 640 g/L

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients

3.1. Substances



2/11

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 Productname :
 MZ-90
 Creationdate :
 11.05.20 Version : 2.1

 Ref.Nr.:
 BDS002331_3_20200511 (EN)
 Replaces:
 BDS002331_20200401

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	25- 50	Flam. Gas 1, Press. Gas	H220,H280	A
zinc powder - zinc dust (stabilized)	01- 2119467174- 37	7440-66- 6	231- 175-3	10- 25	Aquatic Acute 1, Aquatic Chronic 1	H400,H410	
Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic	01- 2119458049- 33	64742- 82-1	(919- 446- 0)	<10	Flam. Liq. 3, Asp. Tox. 1, STOT SE 3, STOT RE 1, Aquatic Chronic 2	H226,H304,H336,H372,H411	B,Q
butanone; ethyl methyl ketone	01- 2119457290- 43	78-93-3	201- 159-0	<10	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3	H225,H319,H336	А
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% n-hexane	01- 2119475514- 35	-	(921- 024- 6)	<8	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2	H225,H315,H336,H304,H411	B,Q
zinc oxide	01- 2119463881- 32	1314-13- 2	215- 222-5	<5	Aquatic Acute 1, Aquatic Chronic 1	H400,H410	В
2-(3-heptyl)-N-butyl-1,3-oxazolane		165101- 57-5	425- 660-0	<1	Aquatic Chronic 2	H411	
butan-1-ol; n-butanol	01- 2119484630- 38	71-36-3	200- 751-6	<1	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, STOT SE 3	H226,H302,H315,H318,H335,H336	В
2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime	01- 2119539477- 28	96-29-7	202- 496-6	<1	Carc. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1	H351,H312,H318,H317	В
Fatty acids, C18-unsatd., dimers, compds. with coco alkylamines	-	68647- 95-0	614- 682-8	<0.1	Skin Irrit. 2, Skin Sens. 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1	H315,H317,H373,H400,H410	

Explanation notes

A: substance with Community workplace exposure limit

B: substance with national established workplace exposure limit

Q: The CAS-no is only an indicative identifier to be used outside the EU for global inventory entries.

(* Explanation phrases : see chapter 16)

SECTION 4: First aid measures

4.1. Description of first aid measures

Contact with eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.



Regulation EC No 1907/2006 Art.31

MZ-90 Creationdate: 11.05.20 Version: 2.1 Productname: Ref.Nr.: BDS002331 20200401 BDS002331 3 20200511 (EN) Replaces:

Contact with skin: Take off contaminated clothing and wash before reuse.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

If swallowed accidentally, do not induce vomiting and seek medical advice. Ingestion:

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

Inhalation: Excessive inhalation of solvent vapours may give rise to nausea, headaches

and dizziness

Ingestion: May cause gastrointestinal disturbances

Symptoms: sore throat, abdominal pain, nausea, vomiting

Skin contact: May cause irritation.

Symptoms: redness and pain

Eye contact: Irritating to eyes

Symptoms: redness and pain

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

General Advice: 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

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.



Regulation EC No 1907/2006 Art.31

Productname: MZ-90 Creationdate: 11.05.20 Version: 2.1

Ref.Nr.: BDS002331_3_20200511 (EN) **Replaces:** BDS002331_20200401

6.2. Environmental precautions

Do not allow to enter public sewers and watercourses
If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3. Methods and material for containment and cleaning up

Absorb spillage in suitable inert material Place in appropriate container

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

Take precautionary measures against static discharges

Equipment should be earthed

Use explosion-proof electrical/ventilating/lighting/.../equipment.

Use only non-sparking tools.

Do not breathe aerosols or vapours.

Ensure adequate ventilation

Avoid contact with skin and eyes.

Wash thoroughly after use

Wear protective gloves/protective clothing/eye protection/face protection.

Eyewash bottles should be available

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Keep out of reach of children.

7.3. Specific end use(s)

Paints

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits:

Hazardous ingredient	CAS-nr. method
FU established exposure limits:	



Regulation EC No 1907/2006 Art.31

 Productname :
 MZ-90
 Creationdate :
 11.05.20 Version : 2.1

 Ref.Nr.:
 BDS002331 3 20200511 (EN)
 Replaces:
 BDS002331 20200401

dimethyl ether	115-10-6	TWA	1000 ppm
butanone; ethyl methyl ketone	78-93-3	TWA	200 ppm
		STEL	300 ppm
National established exposure limits, United Kingdom			
dimethyl ether	115-10-6	TWA	400 ppm
		STEL	500 ppm
butan-1-ol; n-butanol	71-36-3	STEL	50 ppm
butanone; ethyl methyl ketone	78-93-3	TWA	200 ppm
		STEL	300 ppm
National established exposure limits, Ireland			
dimethyl ether	115-10-6	TWA	1000 ppm
		STEL	-
butan-1-ol; n-butanol	71-36-3	TWA	20 ppm
butanone; ethyl methyl ketone	78-93-3	TWA	200 ppm
		STEL	300 ppm
2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime	96-29-7	TWA	3 ppm
		STEL	10 ppm

8.2. Exposure controls

Control procedures : Ensure adequate ventilation

Keep away from heat and sources of ignition

Take precautionary measures against static discharges

Personal protection: Take precautions to avoid contact with skin and eyes when handling the

product.

Ensure adequate ventilation Wear suitable protective gloves

inhalation: In case of insufficient ventilation, wear suitable respiratory equipment.

recommended respiratory protection: Air purifying respirator equiped with organic gas/vapor cartridge (type AX)

hands and skin: When handling the product wear chemical-resistant gloves (standard EN 374).

The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be

changed part-way through.

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: Grey

odour : Characteristic odor.
pH : Not applicable.
Boiling point/range : Not available.

Flash point: < 0 °C



6/11

Regulation EC No 1907/2006 Art.31

Productname: MZ-90

Creationdate: 11.05.20 Version: 2.1 Ref.Nr.: BDS002331 20200401 BDS002331 3 20200511 (EN) Replaces:

Not available. Evaporation rate: Explosion limits: upper limit: Not available. lower limit: Not available. Vapour pressure: Not available.

1.45 g/cm3 (@ 20°C). Relative density: Insoluble in water Solubility in water :

> 200 °C Auto-ignition: Viscosity: Not available.

9.2. Other information

VOC = volatile organic compounds

640 q/l

SECTION 10: Stability and reactivity

10.1. Reactivity

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

Avoid overheating

10.5. Incompatible materials

Strong oxidising agent

10.6. Hazardous decomposition products

CO,CO2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

based on available data the classification criteria are not met acute toxicity: skin corrosion/irritation: based on available data the classification criteria are not met

serious eye damage/irritation: Causes serious eye irritation.



7/11

CRC Industries UK Limited

Regulation EC No 1907/2006 Art.31

 Productname :
 MZ-90
 Creationdate :
 11.05.20 Version : 2.1

 Ref.Nr.:
 BDS002331_3_20200511 (EN)
 Replaces:
 BDS002331_20200401

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:	May cause drowsiness or dizziness.
STOT repeated exposure:	May cause damage to organs through prolonged or repeated exposure.
aspiration hazard:	based on available data the classification criteria are not met

Information on likely routes of exposure:

Inhalation: Inhalation of solvent vapours may give rise to nausea, headaches and

dizziness

Ingestion: May cause gastrointestinal disturbances

Skin contact : May cause irritation. **Eye contact :** Irritating to eyes

Toxicological data:

Hazardous ingredient	CAS-nr.	method	
dimethyl ether	115-10-6	LC50 inhal.rat	309 mg/l
zinc oxide	1314-13-2	LD50 oral rat	7950 mg/kg
		LC50 inhal.rat	> 5.7 mg/l
butan-1-ol; n-butanol	71-36-3	LD50 oral rat	2292 mg/kg
		LC50 inhal.rat	> 17.76 mg/l
		LD50 derm.rabit	3430 mg/kg
butanone; ethyl methyl ketone	78-93-3	LD50 oral rat	> 2000 mg/kg
2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime	96-29-7	LD50 oral rat	2326 mg/kg
		LD50 derm.rabit	1000 mg/kg
Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic	64742-82-1	LD50 oral rat	> 5000 mg/kg
		LC50 inhal.rat	> 10 mg/l
		LD50 derm.rabit	> 4 mg/kg
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% n-hexane	-	LD50 oral rat	> 5000 mg/kg
		LC50 inhal.rat	> 25000 mg/m3
		LD50 derm.rat	> 2000 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, acute category 1 Very toxic to aquatic life.
Hazardous to the aquatic environment, chronic category 1

Very toxic to aquatic life with long lasting effects.

Ecotoxicological data:



Regulation EC No 1907/2006 Art.31

Productname: MZ-90 Creationdate: 11.05.20 Version: 2.1

Ref.Nr.: Replaces: BDS002331 20200401 BDS002331_3_20200511 (EN)

Hazardous ingredient	CAS-nr.	method	
dimethyl ether	115-10-6	IC50 algae	154.9 mg/l
		LC50 fish	4.1 mg/l
		EC50 daphnia	4.4 mg/l
zinc oxide	1314-13-2	IC50 algae	0.136 mg/l
		LC50 fish	0.169 mg/l
		EC50 daphnia	1.7 mg/l
butan-1-ol; n-butanol	71-36-3	LC50 fish	1376 mg/l
		EC50 daphnia	1328 mg/l
2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime	96-29-7	IC50 algae	11.8 mg/l
		LC50 fish	> 100 mg/l
		EC50 daphnia	201 mg/l
Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclic	64742-82-1	IC50 algae	4.6-10 mg/l
		LC50 fish	10-30 mg/l
		EC50 daphnia	10-22 mg/l
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% n-hexane	-	LC50 fish	> 10 mg/l
		EC50 daphnia	3 mg/l

12.2. Persistence and degradability

No experimental data available

12.3. Bioaccumulative potential

No experimental data available

12.4. Mobility in soil

Insoluble 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): 1

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information



9/11

CRC Industries UK Limited

Regulation EC No 1907/2006 Art.31

MZ-90 Productname:

Creationdate: 11.05.20 Version: 2.1 Ref.Nr.: BDS002331 20200401 BDS002331 3 20200511 (EN) Replaces:

14.1. UN number

UN-number: 1950

14.2. UN proper shipping name

Proper shipping name: **AEROSOLS**

14.3. Transport hazard class(es)

Class: 2.1 ADR/RID - Classification code: 5F

14.4. Packing group

Packing group: Not applicable.

14.5. Environmental hazards

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

14.6. Special precautions for user

ADR/RID - Tunnelcode: (D) 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.

15.2. Chemical safety assessment



10 / 11

Regulation EC No 1907/2006 Art.31

Productname: MZ-90 Creationdate: 11.05.20 Version: 2.1

Ref.Nr.: BDS002331 20200401 BDS002331 3 20200511 (EN) Replaces:

No information available

SECTION 16: Other information

*Explanation hazard statements: H220: Extremely flammable gas.

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H280: Contains gas under pressure; may explode if heated.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness.

H351: Suspected of causing cancer.

H372: Causes damage to organs through prolonged or repeated exposure.

H373: May cause damage to organs through prolonged or repeated exposure

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects. H411: Toxic to aquatic life with long lasting effects.

TWA = time weight average acronyms and synonyms:

> 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.

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 quarantee 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.

