

Productname : ZG-90
Ref.Nr.: BDS002353_3_20180627 (EN)

Creationdate : 27.06.18 Version : 1.0
Replaces:

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

1.1. Product identifier

ZG-90
Bulk

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: Flammable liquid, category 3
Flammable liquid and vapour.

Classification is based on test data.

Health: Skin irritation, category 2
Causes skin irritation.

Classification based on calculation method.

Environment: Hazardous to the aquatic environment, chronic category 3
Harmful to aquatic life with long lasting effects.

Classification based on calculation method.

Other hazards : Contains:
2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime
May produce an allergic reaction.



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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictogram(s):



Signal word:	Warning
Hazard statement(s):	H226 : Flammable liquid and vapour. H315 : Causes skin irritation. H412 : Harmful 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. P233 : Keep container tightly closed. P261 : Avoid breathing dust/fume/gas/mist/vapours/spray. P280 : Wear protective gloves/protective clothing/eye protection/face protection. P332/313 : If skin irritation occurs: Get medical advice/attention. P403/235 : Store in a well-ventilated place. Keep cool. 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.

2.3. Other hazards

No experimental data 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
xylene		1330-20-7	215-535-7	25-50	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2	H226,H332,H312,H315	A,W
ethylbenzene	01-2119489370-35	100-41-4	202-849-4	2.5-10	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1	H225,H332,H373,H304	A
toluene	01-2119471310-51	108-88-3	203-625-9	0-1	Flam. Liq. 2, Repr. 2, Asp. Tox. 1, STOT RE 2, Skin Irrit. 2, STOT SE 3	H225,H361D,H304,H373,H315,H336	A



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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	B
1-methoxy-2-propanol; monopropylene glycol methyl ether	01-2119457435-35	107-98-2	203-539-1	0-2.5	Flam. Liq. 3, STOT SE 3	H226,H336	A
zinc oxide	01-2119463881-32	1314-13-2	215-222-5	0-2.5	Aquatic Acute 1, Aquatic Chronic 1	H400,H410	B
Fatty acids, C6-19-branched, zinc salts	01-2119980048-32	68551-44-0	271-378-4	0-2.5	Aquatic Chronic 2	H411	
trizinc bis(orthophosphate)	01-2119485044-40	7779-90-0	231-944-3	0-2.5	Aquatic Acute 1, Aquatic Chronic 1	H400,H410	

Explanation notes

A : substance with Community workplace exposure limit

B : substance with national established workplace exposure limit

W : Note: substance mentioned on the list of CMR-substances of the Dutch Ministry of Social Affairs and Employment (SZW)

(* Explanation phrases : see chapter 16)

SECTION 4: First aid measures**4.1. Description of first aid measures**

Contact with eyes :	If substance has got into eyes, immediately wash out with water for at least 15 minutes Seek medical attention if irritation persists
Contact with skin :	Remove contaminated clothing immediately and wipe affected skin with dry cloth. Then wash with soap and water Seek medical attention if irritation persists
Inhalation :	Fresh air, keep warm and at rest. Seek medical attention if ill effects occur
Ingestion :	If swallowed do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention

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 :	After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia. Symptoms : sore throat, abdominal pain, nausea, vomiting
Skin contact :	Irritating to skin Symptoms : redness and pain
Eye contact :	Mildly 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
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SECTION 5: Firefighting measures

5.1. Extinguishing media

foam, carbon dioxide or dry agent

5.2. Special hazards arising from the substance or mixture

May form explosive vapour/air mixtures
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 including eye/face protection.

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
This material and/or its container must be disposed of as hazardous waste.

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



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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.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed, in a cool, well ventilated place.
 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	
EU established exposure limits:			
ethylbenzene	100-41-4	TWA	100 ppm
		STEL	200 ppm
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	TWA	100 ppm
		STEL	150 ppm
toluene	108-88-3	TWA	50 ppm
		STEL	100 ppm
xylene	1330-20-7	TWA	50 ppm
		STEL	100 ppm
National established exposure limits, United Kingdom			
ethylbenzene	100-41-4	TWA	100 ppm
		STEL	125 ppm
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	TWA	100 ppm
		STEL	150 ppm
toluene	108-88-3	TWA	50 ppm
		STEL	100 ppm
xylene	1330-20-7	TWA	50 ppm
		STEL	100 ppm

8.2. Exposure controls

Control procedures : Ensure adequate ventilation



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Personal protection :	Keep away from heat and sources of ignition Take precautionary measures against static discharges Take precautions to avoid contact with skin and eyes when handling the product. It is good practice to wear gloves and to provide adequate ventilation whenever using the product. In all cases handle and use the product in accordance with good industrial hygiene practices.
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 :	When handling the product wear chemical-resistant gloves (standard EN 374). Use a reusable glove with a minimum breakthrough time of 30 minutes. 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Apperance : physical state :	Viscous liquid.
colour :	Black.
odour :	Characteristic odor.
pH :	Not applicable.
Boiling point/range :	Not available.
Flash point :	> 23 °C (Open Cup)
Explosion limits : upper limit :	8 %
lower limit :	1 %
Vapour pressure :	Not available.
Relative density :	1.27 g/cm ³ (@ 20°C).
Auto-ignition :	> 200 °C
Viscosity :	85 KU

9.2. Other information

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



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Replaces:

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

acute toxicity:	based on available data the classification criteria are not met
skin corrosion/irritation:	Causes skin irritation.
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 :	Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
Ingestion :	After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia.
Skin contact :	Irritating to skin
Eye contact :	May cause irritation.

Toxicological data :

Hazardous ingredient	CAS-nr.	method	
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	LD50 oral rat	4016 mg/kg
		LC50 inhal.rat	27596 mg/l
		LD50 derm.rabit	2000 mg/kg
toluene	108-88-3	LD50 oral rat	> 5000 mg/kg



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		LC50 inhal.rat	28.1 mg/l
		LD50 derm.rabit	> 5000 mg/kg
zinc oxide	1314-13-2	LC50 inhal.rat	> 5.7 mg/l
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

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, chronic category 3
 Harmful to aquatic life with long lasting effects.

Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2	LC50 fish	6812 mg/l
		EC50 daphnia	23300 mg/l
toluene	108-88-3	IC50 algae	10 mg/l
		LC50 fish	5.5 mg/l
		EC50 daphnia	3.78 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
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

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 experimental data available

12.6. Other adverse effects

No experimental data available



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : This material and its container must be disposed of in a safe way.
Do not discharge into drains or the environment, dispose to an authorised waste collection point.

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

SECTION 14: Transport information

14.1. UN number

UN-number : 1263

14.2. UN proper shipping name

Proper shipping name: PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

Class: 3
ADR/RID - Classification code: F1

14.4. Packing group

Packing group: III

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: (D/E)
IMDG - Ems: F-E, S-E

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

Not applicable.



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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)

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

*Explanation hazard statements: H225 : Highly flammable liquid and vapour.
H226 : Flammable liquid and vapour.
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.
H332 : Harmful if inhaled.
H336 : May cause drowsiness or dizziness.
H351 : Suspected of causing cancer .
H361D : Suspected of damaging fertility or the unborn child .
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.

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.

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