

SDS ATTACHMENT

PLEASE ATTACH THIS COMPLETED SHEET TO THE SDS FOR:

PRODUCT:

ZG90 Zinc Galv

DATE:

7-Feb-20

(SDS date)

1. Manufacturer/Supplier:

Tradegear Ltd
Level 1, 99 Clarence Street
Riccarton
Christchurch 8011
New Zealand
Phone: 0800 22 44 34 or +64 3 341 8055
Fax: 0800 22 11 51 or +64 9 522 8833
24 hr emergency contact: +64 21 510 622
Website: www.tradegear.co.nz
Email: office@tradegear.co.nz

Emergency Information:

National Poison Centre:

0800 764 766

2 & 15. Hazards Identification & Regulatory Requirements:

| | |
|--|---|
| Product Name: | ZG-90 Aerosol (Zinc Cold-Glav) |
| Group Standard, Approval # | Aerosols (Flammable) Group Standard 2006, HSR002515 |
| HSNO Classes (from GHS codes) | 2.1.2A, 6.3A, 6.4A, 6.9B, 9.1C |
| Class 9 Hazard/Precautionary Statements | Harmful to aquatic life with long lasting effects. Read label before use (supply to public) Read SDS before use (supply to public) Avoid release to the environment |
| TEL or EEL applicable? | None |

Productname : ZG-90
Ref.Nr.: BDS002214_3_20200207 (EN)

Creationdate : 07.02.20 Version : 1.2
Replaces: BDS002214_20190919

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

1.1. Product identifier

ZG-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.

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.





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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

| | |
|---|---|
| Product identifier: | Contains: acetone; propan-2-one; propanone n-butyl acetate 1-methoxy-2-propanol; monopropylene glycol methyl ether |
| Hazard pictogram(s): |   |
| Signal word: | Danger |
| Hazard statement(s): | H222 : Extremely flammable aerosol. H229 : Pressurised container. May burst if heated. H319 : Causes serious eye irritation. H336 : May cause drowsiness or dizziness. 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. P211 : Do not spray on an open flame or other ignition source. P251 : Do not pierce or burn, even after use. P261 : Avoid breathing dust/fume/gas/mist/vapours/spray. P271 : Use only outdoors or in a well-ventilated area. 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: | Repeated exposure may cause skin dryness or cracking. |

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 | 50-75 | Flam. Gas 1, Press. Gas | H220,H280 | A |
| acetone; propan-2-one; propanone | 01-2119471330-49 | 67-64-1 | 200-662-2 | 10-25 | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 | H225,H319,H336 | A |
| n-butyl acetate | 01- | 123- | 204- | 5-10 | Flam. Liq. 3, STOT SE 3 | H226 H336 | |



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| | | | | | | | |
|---|----------------------|---------------|-----------------|-----|--|--------------------------|-----|
| | 2119485493-29 | 86-4 | 658-1 | | | | |
| 1-methoxy-2-propanol; monopropylene glycol methyl ether | 01- 2119457435-35 | 107- 98-2 | 203- 539-1 | 1-5 | Flam. Liq. 3, STOT SE 3 | H226,H336 | A |
| zinc oxide | 01- 2119463881-32 | 1314- 13-2 | 215- 222-5 | 0-1 | Aquatic Acute 1, Aquatic Chronic 1 | H400,H410 | B |
| aluminium powder (stabilized) | 01- 2119529243-45 | 7429- 90-5 | 231- 072-3 | 0-1 | Water-react. 2, Flam. Sol. 1 | H261,H228 | A |
| Hydrocarbons, C9, aromatics | 01- 2119455851-35 | - | (918- 668-5) | 0-1 | Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2 | H226,H335,H336,H304,H411 | Q |
| Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics | 01- 2119463258-33 | - | (919- 857-5) | 0-1 | Flam. Liq. 3, Asp. Tox. 1, STOT SE 3 | H226,H304,H336 | B,Q |

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

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 |
|-------------------------|---|



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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

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
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.



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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 | |
|---|----------|--------|----------|
| EU established exposure limits: | | | |
| 1-methoxy-2-propanol; monopropylene glycol methyl ether | 107-98-2 | TWA | 100 ppm |
| | | STEL | 150 ppm |
| dimethyl ether | 115-10-6 | TWA | 1000 ppm |
| acetone; propan-2-one; propanone | 67-64-1 | TWA | 500 ppm |
| National established exposure limits, United Kingdom | | | |
| 1-methoxy-2-propanol; monopropylene glycol methyl ether | 107-98-2 | TWA | 100 ppm |
| | | STEL | 150 ppm |
| dimethyl ether | 115-10-6 | TWA | 400 ppm |
| n-butyl acetate | 123-86-4 | TWA | 150 ppm |
| | | STEL | 200 ppm |
| acetone; propan-2-one; propanone | 67-64-1 | TWA | 500 ppm |
| | | STEL | 1500 ppm |
| National established exposure limits, Ireland | | | |
| 1-methoxy-2-propanol; monopropylene glycol methyl ether | 107-98-2 | TWA | 100 ppm |
| | | STEL | 150 ppm |
| dimethyl ether | 115-10-6 | TWA | 1000 ppm |
| | | STEL | - |
| n-butyl acetate | 123-86-4 | TWA | 150 ppm |
| | | STEL | 200 ppm |
| acetone; propan-2-one; propanone | 67-64-1 | TWA | 500 ppm |
| | | STEL | - |



| | |
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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 equipped with organic gas/vapor cartridge (type A) |
| 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 |
| Evaporation rate : | Not available. |
| Explosion limits : upper limit : | Not available. |
| lower limit : | Not available. |
| Vapour pressure : | Not available. |
| Relative density : | 0.973 g/cm ³ (@ 20°C). |
| Solubility in water : | Insoluble in water |
| Auto-ignition : | > 200 °C |
| Viscosity : | Not available. |

9.2. Other information

| | |
|---|---------|
| VOC = volatile organic compounds | 973 g/l |
|---|---------|

SECTION 10: Stability and reactivity



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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

| | |
|---|---|
| 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: | Causes serious eye irritation. |
| 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: | 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 : | May cause gastrointestinal disturbances |
| Skin contact : | May cause irritation. |
| Eye contact : | Irritating to eyes |



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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 |
| dimethyl ether | 115-10-6 | LC50 inhal.rat | 309 mg/l |
| | | | |
| n-butyl acetate | 123-86-4 | LD50 oral rat | 10760 mg/kg |
| | | LC50 inhal.rat | > 20 mg/l |
| | | LD50 derm.rabit | > 1400 mg/kg |
| zinc oxide | 1314-13-2 | LD50 oral rat | 7950 mg/kg |
| | | LC50 inhal.rat | > 5.7 mg/l |
| acetone; propan-2-one; propanone | 67-64-1 | LD50 oral rat | > 5800 mg/kg |
| | | LC50 inhal.rat | 76 mg/l |
| | | LD50 derm.rabit | > 15800 mg/kg |
| Hydrocarbons, C9, aromatics | - | LD50 oral rat | 3492 mg/kg |
| | | LC50 inhal.rat | > 6.393 mg/l |
| | | LD50 derm.rabit | > 3160 mg/kg |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | - | LD50 oral rat | >5000 mg/kg |
| | | LC50 inhal.rat | 4951 mg/m3 |
| | | LD50 derm.rabit | >5000 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 |
| dimethyl ether | 115-10-6 | IC50 algae | 154.9 mg/l |
| | | LC50 fish | 4.1 mg/l |
| | | EC50 daphnia | 4.4 mg/l |
| n-butyl acetate | 123-86-4 | IC50 algae | 647 mg/l |
| | | LC50 fish | 18 mg/l |
| | | EC50 daphnia | 44 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 |
| acetone; propan-2-one; propanone | 67-64-1 | IC50 algae | 530 mg/l |
| | | LC50 fish | 5540 mg/l |



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| | | | |
|--|--|--------------|-----------|
| | | EC50 daphnia | 8800 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

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.



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14.5. Environmental hazards

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

14.6. Special precautions for user

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

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.
H228 : Flammable solid.
H261 : In contact with water releases flammable gases.
H280 : Contains gas under pressure; may explode if heated.
H304 : May be fatal if swallowed and enters airways.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
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



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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 guarantee any specific properties.

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