

**Productname :** LD-90  
**Ref.Nr.:** BDS002220\_3\_20200423 (EN)

**Creationdate :** 23.04.20 Version : 2.0  
**Replaces:** BDS002220\_20190405

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

### 1.1. Product identifier

**LD-90**  
Aerosol

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

Gas leak detector

### 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.

Classification is based on test data.

**Health:** Skin sensitization, category 1  
May cause an allergic skin reaction.  
Eye irritation, category 2  
Causes serious eye irritation.

Classification based on calculation method.

**Environment:** Not classified

Classification based on calculation method.

### 2.2. Label elements



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### Labelling according to Regulation (EC) No 1272/2008

**Product identifier:** Contains:  
2-methyl-2H-isothiazol-3-one

**Hazard pictogram(s):**



**Signal word:** Warning

**Hazard statement(s):** H229 : Pressurised container: May burst if heated.  
H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.

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

### 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 |
|--|---------------------|-------------|-------------|-------|---|--------------------------|-------|
| 2-amino-2-methylpropanol                               | 01-2119475110-51    | 124-68-5    | 204-709-8   | <1    | Eye Irrit. 2, Skin Irrit. 2, Aquatic Chronic 3                              | H319,H315,H412           | B     |
| dinitrogen oxide                                       | 01-2119970538-25    | 10024-97-2  | 233-032-0   | <2.5  | Ox. Gas 1, Press. Gas   | H270,H280                | B,W   |
| (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine            | 01-2119488991-20    | 110-25-8    | 203-749-3   | <2.5  | Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1                    | H332,H315,H318,H400      | B     |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 01-2119490061-47    | 308062-28-4 | (931-292-6) | <0.25 | Eye Dam. 1, Acute Tox. 4, Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 2 | H318,H302,H315,H400,H411 | Q     |



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|                              |                  |            |           |              |   |                                    |     |
|------------------------------|------------------|------------|-----------|--------------|---|------------------------------------|-----|
| Oxazolidine, 4,4-dimethyl-   | -                | 51200-87-4 | 257-048-2 | <0.1         | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 3, Eye Dam. 1, STOT SE 3   | H226,H302,H331,H318,H335           |     |
| 1-Butanol, 2-amino-          | 01-2119492338-28 | 96-20-8    | 202-488-2 | <0.1         | Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1  | H302,H314,H318,H400                | B   |
| 1,2-benzisothiazol-3(2H)-one | -                | 2634-33-5  | 220-120-9 | <0.005       | 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 |
| 2-methyl-2H-isothiazol-3-one | -                | 2682-20-4  | 220-239-6 | 0.0015-0.005 | Acute Tox. 3, Acute Tox. 2, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2 | H301,H330,H314,H318,H317,H400,H411 | M,X |

**Explanation notes**

B : substance with national established workplace exposure limit

M : M acute = 10

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

R : substance in plant protection or biocidal product regarded as being registered (art.15 REACH Regulation No 1907/2006)

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

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**

|                            |  |
|----------------------------|--|
| <b>Contact with eyes :</b> | IF IN EYES:<br>Rinse cautiously with water for several minutes.<br>If eye irritation persists: Get medical advice/attention.   |
| <b>Contact with skin :</b> | Take off contaminated clothing and wash before reuse.<br>IF ON SKIN:<br>Rinse cautiously with water for several minutes.<br>If skin irritation occurs: Get medical advice/attention. |
| <b>Inhalation :</b>        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>Call a POISON CENTER or doctor/physician if you feel unwell.   |
| <b>Ingestion :</b>         | Seek medical attention if ill effects occur  |

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

|                       |   |
|-----------------------|---|
| <b>Inhalation :</b>   | No harmful effects known if used for its intended purpose           |
| <b>Ingestion :</b>    | May cause gastrointestinal disturbances                             |
| <b>Skin contact :</b> | May cause an allergic skin reaction.<br>Symptoms : redness and pain |
| <b>Eye contact :</b>  | Causes serious eye irritation.<br>Symptoms : redness and pain       |



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

**General Advice :** If skin or eye irritation occurs: Get medical advice/attention.

### 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,CO<sub>2</sub>

#### 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

#### 6.3. Methods and material for containment and cleaning up

Absorb spillage in suitable inert material

#### 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.



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Do not pierce or burn aerosols, even after use.  
 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

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)

Gas leak detector

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### Exposure limits :

| Hazardous ingredient  | CAS-nr.    | method |         |
|---|------------|--------|---------|
| <b>National established exposure limits, United Kingdom</b> |            |        |         |
| dinitrogen oxide  | 10024-97-2 | TWA    | 100 ppm |
| <b>National established exposure limits, Ireland</b>        |            |        |         |
| dinitrogen oxide  | 10024-97-2 | TWA    | 50 ppm  |
|   |            | STEL   | -       |

## 8.2. Exposure controls

|                                     |   |
|-------------------------------------|---|
| <b>Control procedures :</b>         | Ensure adequate ventilation<br>Keep away from heat and sources of ignition  |
| <b>Personal protection :</b>        | Take precautions to avoid contact with skin and eyes when handling the product.<br>It is good practice to wear gloves and to provide adequate ventilation whenever using the product.<br>In all cases handle and use the product in accordance with good industrial hygiene practices.  |
| <b>inhalation :</b>                 | In case of insufficient ventilation, wear suitable respiratory equipment.   |
| recommended respiratory protection: | Air purifying respirator equipped with organic gas/vapor cartridge (type A)   |
| <b>hands and skin :</b>             | When handling the product wear chemical-resistant gloves (standard EN 374).<br>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<br>recommended breakthrough time > 480 minutes  |



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**eyes :** Recommended thickness < 0.45 mm  
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

**Appearance : physical state :** N2O propelled liquid.  
**colour :** Colorless.  
**odour :** Neutral.  
**pH :** 7.76  
**Boiling point/range :** Not available.  
**Flash point :** None  
**Evaporation rate :** Not available.  
**Explosion limits : upper limit :** Not available.  
**lower limit :** Not available.  
**Vapour pressure :** Not available.  
**Relative density :** 0.999 g/cm<sup>3</sup> (@ 20°C).  
**Solubility in water :** Soluble in water  
**Auto-ignition :** > 200 °C

### 9.2. Other information

**VOC = volatile organic compounds** 0 g/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



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Strong oxidising agent

## 10.6. Hazardous decomposition products

CO,CO2

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|   |   |
|---|---|
| <b>acute toxicity:</b>                    | based on available data the classification criteria are not met |
| <b>skin corrosion/irritation:</b>         | based on available data the classification criteria are not met |
| <b>serious eye damage/irritation:</b>     | Causes serious eye irritation.                                  |
| <b>respiratory or skin sensitisation:</b> | May cause an allergic skin reaction.                            |
| <b>germ cell mutagenicity:</b>            | based on available data the classification criteria are not met |
| <b>carcinogenicity:</b>                   | based on available data the classification criteria are not met |
| <b>toxicity for reproduction:</b>         | based on available data the classification criteria are not met |
| <b>STOT-single exposure:</b>              | based on available data the classification criteria are not met |
| <b>STOT repeated exposure:</b>            | based on available data the classification criteria are not met |
| <b>aspiration hazard:</b>                 | based on available data the classification criteria are not met |

### Information on likely routes of exposure:

|                       |   |
|-----------------------|---|
| <b>Inhalation :</b>   | No adverse health effects expected      |
| <b>Ingestion :</b>    | May cause gastrointestinal disturbances |
| <b>Skin contact :</b> | May cause an allergic skin reaction.    |
| <b>Eye contact :</b>  | Causes serious eye irritation.          |

### Toxicological data :

| Hazardous ingredient                                    | CAS-nr.     | method        |            |
|---|-------------|---------------|------------|
| Amines, C12-14 (even numbered)- alkyldimethyl, N-oxides | 308062-28-4 | LD50 oral rat | 1064 mg/kg |

## SECTION 12: Ecological information

### 12.1. Toxicity

Not classified

### Ecotoxicological data:

| Hazardous ingredient                                    | CAS-nr.     | method     |            |
|---|-------------|------------|------------|
| Amines, C12-14 (even numbered)- alkyldimethyl, N-oxides | 308062-28-4 | IC50 algae | 0.143 mg/l |
|   |             | LC50 fish  | 2.67 mg/l  |



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|  |  |              |          |
|--|--|--------------|----------|
|  |  | EC50 daphnia | 3.1 mg/l |
|--|--|--------------|----------|

### 12.2. Persistence and degradability

No experimental data available

### 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): 3

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

## 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  
Subsidiary risk: 5.1  
ADR/RID - Classification code: 50

### 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/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.

#### 15.2. Chemical safety assessment

No information available

### SECTION 16: Other information

\*Explanation hazard statements: H226 : Flammable liquid and vapour.  
H270 : May cause or intensify fire; oxidiser.  
H280 : Contains gas under pressure; may explode if heated.  
H301 : Toxic if swallowed.  
H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H330 : Fatal if inhaled.  
H331 : Toxic if inhaled.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H400 : Very toxic to aquatic life.



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|   |  |
|---|--|
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|                        |   |
|------------------------|---|
| REVISIONS IN CHAPTRE : | H411 : Toxic to aquatic life with long lasting effects.<br>H412 : Harmful to aquatic life with long lasting effects.<br>Classification according to Regulation (EC) No 1272/2008<br>Labelling according to Regulation (EC) No 1272/2008<br>8.2. Exposure controls |
| acronyms and synonyms: | TWA = time weight average<br>STEL = short time exposure limit<br>VOC = volatile organic compounds<br>PBT = persistant bioaccumulative toxic<br>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. 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.

