

# EC safety data sheet

Trade name: KRONES celerol LU 7608 (Schmierstoffgeber)

Current version : 1.0.1, issued: 10.12.2019

Replaced version: 1.0.0, issued: 20.11.2019

Region: GB

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

### 1.1 Product identifier

Trade name

**KRONES celerol LU 7608 (Schmierstoffgeber)**

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

Relevant identified uses of the substance or mixture

Lubrication system

Uses advised against

No data available.

### 1.3 Details of the supplier of the safety data sheet

Address

KIC KRONES Internationale Cooperationsgesellschaft mbH  
Böhmerwaldstraße 5  
93073 Neutraubling

Telephone no. +49 9401 70-3020

Fax no. +49 9401 70-3696

e-mail kic@kic-krones.de

Advice on Safety Data Sheet

sdb\_info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

In case of transport incidents and other emergencies:

+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification information

This product is in the sense of article 3 of the Regulation (EC) 1907/2006 (REACH) an article and not subject to the labelling obligations according to:

- Art. 1, Regulation (EC) 1272/2008 (CLP).

To provide a safety data sheet is not mandatory for articles according to art. 31 of the Regulation (EC) 1907/2006 (REACH) and is done on a voluntary basis.

### 2.2 Label elements

Not relevant

### 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

Hazardous ingredients

| No | Substance name              |                                     | Additional information |         |
|----|-----------------------------|-------------------------------------|------------------------|---------|
|    | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration          | %       |
| 1  | <b>manganese dioxide</b>    |                                     |                        |         |
|    | 1313-13-9                   | Acute Tox. 4*; H302                 | >= 25.00 - < 50.00     | % -b.w. |
|    | 215-202-6                   | Acute Tox. 4*; H332                 |                        |         |
|    | 025-001-00-3                |                                     |                        |         |
|    | -                           |                                     |                        |         |

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|   |   |   |                    |        |
|---|---|---|--------------------|--------|
| 2 | <b>magnesium-perchlorate</b>                              |   |                    |        |
|   | 10034-81-8<br>233-108-3<br>-<br>-                         | Ox. Sol. 2; H272<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>EUH014  | >= 10.00 - < 25.00 | %-b.w. |
| 3 | <b>sodium azide</b>                                       |   |                    |        |
|   | 26628-22-8<br>247-852-1<br>011-004-00-7<br>-              | Acute Tox. 2*; H300<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>EUH032   | >= 10.00 - < 25.00 | %-b.w. |
| 4 | <b>propylene carbonate</b>                                |   |                    |        |
|   | 108-32-7<br>203-572-1<br>607-194-00-1<br>01-2119537732-48 | Eye Irrit. 2; H319  | >= 5.00 - < 10.00  | %-b.w. |
| 5 | <b>1,2-dimethoxyethane</b>                                |   |                    |        |
|   | 110-71-4<br>203-794-9<br>603-031-00-3<br>-                | Acute Tox. 4*; H332<br>EUH019<br>Flam. Liq. 2; H225<br>Repr. 1B; H360FD   | >= 5.00 - < 10.00  | %-b.w. |
| 6 | <b>lithium</b>  |   |                    |        |
|   | 7439-93-2<br>231-102-5<br>003-001-00-4<br>-               | EUH014<br>Skin Corr. 1B; H314<br>Water-react. 1; H260   | < 5.00             | %-b.w. |
| 7 | <b>Nickelsulfate hexahydrate</b>                          |   |                    |        |
|   | 10101-97-0<br>232-104-9<br>028-009-00-5<br>-              | Acute Tox. 4*; H302<br>Acute Tox. 4*; H332<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>Carc. 1A; H350i<br>Muta. 2; H341<br>Repr. 1B; H360D***<br>Resp. Sens. 1; H334<br>Skin Irrit. 2; H315<br>Skin Sens. 1; H317<br>STOT RE 1; H372** | < 0.50             | %-b.w. |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(\* , \*\* , \*\*\* , \*\*\*\* ) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

| No | Note | Specific concentration limits   | M-factor (acute) | M-factor (chronic) |
|----|------|---|------------------|--------------------|
| 7  | -    | Skin Sens. 1; H317: C >= 0.01%<br>STOT RE 2; H373: C >= 0.1%<br>STOT RE 1; H372: C >= 1%<br>Skin Irrit. 2; H315: C >= 20% | M = 1            | -                  |

| No | Route, target organ, concrete effect |
|----|--------------------------------------|
| 7  | H350i<br>inhalational; -; -          |

### 3.3 Other information

The concentrations of the ingredients refer to the contained gas generator cell and the batteries, not to the whole system. Due to structural measures of the cells, the contained hazardous ingredients are not freely available for foreseeable use.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

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Measures refer to damaged lubrication systems. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. Adhere to personal protective measures when giving first aid. Show MSDS to the attending physician.

#### **After inhalation**

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Call a doctor immediately.

#### **After skin contact**

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

#### **After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

#### **After ingestion**

Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

No data available.

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

Treat symptomatically

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Carbon dioxide; Water spray jet; Extinguishing powder; Foam

##### **Unsuitable extinguishing media**

High power water jet

#### **5.2 Special hazards arising from the substance or mixture**

In the event of fire, the following can be released: Nitrogen oxides (NO<sub>x</sub>); Hydrogen chloride (HCl); Toxic gases/vapours

#### **5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing. Cool closed containers exposed to fire with water.

### **SECTION 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

##### **For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Keep people away and stay on the upwind side. Use breathing apparatus if exposed to vapours/dust/aerosol.

##### **For emergency responders**

Personal protective equipment (PPE) - see Section 8.

#### **6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

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

Take up mechanically. When collected, handle material as described under the section heading "Disposal considerations".

#### **6.4 Reference to other sections**

Information regarding safe handling, see chapter 7. Information regarding personal protective measures, see chapter 8. Information regarding waste disposal, see chapter 13.

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

##### **Advice on safe handling**

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Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

### Incompatible products

Substances to be avoided, pls. See chapter 10.

## 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

No parameters available for monitoring.

### 8.2 Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

#### Personal protective equipment

##### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

##### Eye / face protection

Safety glasses with side protection shield (EN 166)

##### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

|                      |              |     |    |
|----------------------|--------------|-----|----|
| Appropriate Material | butyl rubber |     |    |
| Material thickness   | >            | 0.4 | mm |
| Breakthrough time    | >            | 480 | mm |

##### Other

Chemical-resistant work clothes.

##### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                    |
|--------------------|
| <b>Form/Colour</b> |
| Capsule            |

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|  |           |
|--|-----------|
| <b>Odour</b>                                     |           |
| No data available                                |           |
| <b>Odour threshold</b>                           |           |
| No data available                                |           |
| <b>pH value</b>                                  |           |
| Value  | 8.3 - 8.8 |
| <b>Boiling point / boiling range</b>             |           |
| No data available                                |           |
| <b>Melting point / melting range</b>             |           |
| No data available                                |           |
| <b>Decomposition point / decomposition range</b> |           |
| No data available                                |           |
| <b>Flash point</b>                               |           |
| No data available                                |           |
| <b>Auto-ignition temperature</b>                 |           |
| No data available                                |           |
| <b>Oxidising properties</b>                      |           |
| No data available                                |           |
| <b>Explosive properties</b>                      |           |
| No data available                                |           |
| <b>Flammability (solid, gas)</b>                 |           |
| No data available                                |           |
| <b>Lower flammability or explosive limits</b>    |           |
| No data available                                |           |
| <b>Upper flammability or explosive limits</b>    |           |
| No data available                                |           |
| <b>Vapour pressure</b>                           |           |
| No data available                                |           |
| <b>Vapour density</b>                            |           |
| No data available                                |           |
| <b>Evaporation rate</b>                          |           |
| No data available                                |           |
| <b>Relative density</b>                          |           |
| No data available                                |           |
| <b>Density</b>                                   |           |
| No data available                                |           |
| <b>Solubility in water</b>                       |           |
| Comments   | miscible  |
| <b>Solubility(ies)</b>                           |           |
| No data available                                |           |
| <b>Partition coefficient: n-octanol/water</b>    |           |
| No data available                                |           |
| <b>Viscosity</b>                                 |           |
| No data available                                |           |

## 9.2 Other information

|                          |
|--------------------------|
| <b>Other information</b> |
| No data available.       |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable at ambient temperature.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

### 10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

No data available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

|                            |
|----------------------------|
| <b>Acute oral toxicity</b> |
|----------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

|                              |
|------------------------------|
| <b>Acute dermal toxicity</b> |
|------------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

|                                    |
|------------------------------------|
| <b>Acute inhalational toxicity</b> |
|------------------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

|                                  |
|----------------------------------|
| <b>Skin corrosion/irritation</b> |
|----------------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

|                                      |
|--------------------------------------|
| <b>Serious eye damage/irritation</b> |
|--------------------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

|  |
|--|
| <b>Respiratory or skin sensitisation</b> |
|--|

|                   |
|-------------------|
| No data available |
|-------------------|

|                               |
|-------------------------------|
| <b>Germ cell mutagenicity</b> |
|-------------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

|                              |
|------------------------------|
| <b>Reproduction toxicity</b> |
|------------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

|                        |
|------------------------|
| <b>Carcinogenicity</b> |
|------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

|                               |
|-------------------------------|
| <b>STOT - single exposure</b> |
|-------------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

|                                 |
|---------------------------------|
| <b>STOT - repeated exposure</b> |
|---------------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

|                          |
|--------------------------|
| <b>Aspiration hazard</b> |
|--------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

## SECTION 12: Ecological information

### 12.1 Toxicity

|                                 |
|---------------------------------|
| <b>Toxicity to fish (acute)</b> |
|---------------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

|                                   |
|-----------------------------------|
| <b>Toxicity to fish (chronic)</b> |
|-----------------------------------|

|                   |
|-------------------|
| No data available |
|-------------------|

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## Toxicity to Daphnia (acute)

No data available

## Toxicity to Daphnia (chronic)

No data available

## Toxicity to algae (acute)

No data available

## Toxicity to algae (chronic)

No data available

## Bacteria toxicity

No data available

## 12.2 Persistence and degradability

No data available.

## 12.3 Bioaccumulative potential

No data available.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Other adverse effects

No data available.

## 12.7 Other information

### Other information

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Dispose of according to all applicable regulations upon consultation of the local competent authorities and the disposer in a suitable and authorised disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

|                      |                              |
|----------------------|------------------------------|
| Class                | 9                            |
| Classification code  | M11                          |
| UN number            | UN3363                       |
| Proper shipping name | DANGEROUS GOODS IN APPARATUS |
| Label                | 9                            |
| Comments             | SV 301, SV 672               |

### 14.2 Transport IMDG

|                      |                              |
|----------------------|------------------------------|
| Class                | 9                            |
| UN number            | UN3363                       |
| Proper shipping name | DANGEROUS GOODS IN APPARATUS |
| EmS                  | F-A, S-P                     |
| Label                | 9                            |
| Comments             | SV 301                       |

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## 14.3 Transport ICAO-TI / IATA

Class 9  
UN number UN3363  
Proper shipping name Dangerous goods in apparatus  
Label 9

## 14.4 Other information

No data available.

## 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

## 14.6 Special precautions for user

No data available.

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

## SECTION 15: Regulatory information

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

#### EU regulations

##### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

##### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

The article contains following substance/s that is/are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

| No | Substance name      | CAS no.  | EC no.    |
|----|---------------------|----------|-----------|
| 1  | 1,2-dimethoxyethane | 110-71-4 | 203-794-9 |

##### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

| No | Substance name            | CAS no.    | EC no.    | No         |
|----|---------------------------|------------|-----------|------------|
| 1  | 1,2-dimethoxyethane       | 110-71-4   | 203-794-9 | 30         |
| 2  | Nickelsulfate hexahydrate | 10101-97-0 | 232-104-9 | 27, 28, 30 |

##### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

##### **Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

### 15.2 Chemical safety assessment

No data available.

## SECTION 16: Other information

#### **Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

#### **Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

EUH014 Reacts violently with water.



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|--------|--|
| EUH019 | May form explosive peroxides.  |
| EUH032 | Contact with acids liberates very toxic gas.                                   |
| H225   | Highly flammable liquid and vapour.  |
| H260   | In contact with water releases flammable gases which may ignite spontaneously. |
| H272   | May intensify fire; oxidiser.  |
| H300   | Fatal 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.   |
| H319   | Causes serious eye irritation.   |
| H332   | Harmful if inhaled.  |
| H334   | May cause allergy or asthma symptoms or breathing difficulties if inhaled.     |
| H335   | May cause respiratory irritation.  |
| H341   | Suspected of causing genetic defects   |
| H350i  | May cause cancer by inhalation.  |
| H360D  | May damage the unborn child.   |
| H360FD | May damage fertility. May damage the unborn child.                             |
| H372   | Causes damage to organs through prolonged or repeated exposure.                |
| H400   | Very toxic to aquatic life.  |
| H410   | Very toxic to aquatic life with long lasting effects.                          |

## Department issuing safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

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