

# EU safety data sheet

**Trade name:** KRONES celerol DG 7800

**Current version :** 1.0.4, issued: 25.11.2022

**Replaced version:** 1.0.3, issued: 08.04.2022

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**KRONES celerol DG 7800**

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

**Relevant identified uses of the substance or mixture**

Cleaner

**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

e-mail kic@kic-krones.com

**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 in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aerosol 1; H222

Asp. Tox. 1; H304

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Hazard pictograms**



GHS02

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

**Hazard statement(s)**

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

# EU safety data sheet

**Trade name:** KRONES celerol DG 7800

**Current version :** 1.0.4, issued: 25.11.2022

**Replaced version:** 1.0.3, issued: 08.04.2022

**Region:** GB

## Hazard statements (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

## Precautionary statement(s)

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.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

## Labelling information

The labelling of an aspiration hazard (Asp. Tox. 1; H304) is not mandatory for aerosols and containers with a sealed spray attachment (Regulation (EC) 1272/2008, Annex 1, 1.3.3).

## 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  | Classification (EC) 1272/2008 (CLP)   | Additional information | %   |
|----|---|---|------------------------|-----|
|    | CAS / EC / Index / REACH no   |   | Concentration          |     |
| 1  | <b>ethanol</b>  |   |                        |     |
|    | 64-17-5<br>200-578-6<br>603-002-00-5<br>01-2119457610-43                      | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319  | >= 25.00 - < 50.00     | wt% |
| 2  | <b>butane</b>   |   |                        |     |
|    | 106-97-8<br>203-448-7<br>601-004-00-0<br>01-2119474691-32                     | Flam. Gas 1A; H220<br>Press. Gas liq.; H280   | >= 10.00 - < 25.00     | wt% |
| 3  | <b>propane</b>  |   |                        |     |
|    | 74-98-6<br>200-827-9<br>601-003-00-5<br>01-2119486944-21                      | Flam. Gas 1A; H220<br>Press. Gas compr.; H280   | >= 10.00 - < 25.00     | wt% |
| 4  | <b>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> |   |                        |     |
|    | -<br>927-241-2<br>-<br>01-2119471843-32                                       | Aquatic Chronic 3; H412<br>Asp. Tox. 1; H304<br>Flam. Liq. 3; H226<br>STOT SE 3; H336<br>EUH066 | >= 10.00 - < 25.00     | wt% |
| 5  | <b>isobutane</b>  |   |                        |     |
|    | 75-28-5<br>200-857-2<br>601-004-00-0<br>01-2119485395-27                      | Flam. Gas 1A; H220<br>Press. Gas compr.; H280   | >= 10.00 - < 25.00     | wt% |
| 6  | <b>propan-2-ol</b>  |   |                        |     |
|    | 67-63-0<br>200-661-7<br>603-117-00-0<br>01-2119457558-25                      | Eye Irrit. 2; H319<br>Flam. Liq. 2; H225<br>STOT SE 3; H336                                     | < 5.00                 | wt% |

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

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|-------------------------------|------------------|--------------------|
|----|------|-------------------------------|------------------|--------------------|

# EU safety data sheet

**Trade name:** KRONES celerol DG 7800

**Current version :** 1.0.4, issued: 25.11.2022

**Replaced version:** 1.0.3, issued: 08.04.2022

**Region:** GB

|   |      |                              |   |   |
|---|------|------------------------------|---|---|
| 1 | -    | Eye Irrit. 2; H319: C >= 50% | - | - |
| 2 | C, U | -                            | - | - |
| 5 | U, C | -                            | - | - |

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

#### After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

#### After skin contact

In case of contact with skin wash off with 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 medical attention if pain still persists.

#### After ingestion

Rinse the 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

#### Symptoms

Frostbite; Dizziness

#### Effects

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide; Water spray jet; Extinguishing powder; Fight large fires with directed water spray or Alcohol-resistant 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: Carbon monoxide and carbon dioxide; Bursting aerosol cans can be launched out of a fire with great force.

### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion byproducts. Cool closed containers exposed to fire with water. Use self-contained breathing apparatus. Wear protective clothing. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Closed containers may rupture when exposed to extreme heat.

## 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. Ensure adequate ventilation. Keep away from ignition sources.

#### For emergency responders

Personal protective equipment (PPE) - see section 8.

# EU safety data sheet

Trade name: KRONES celerol DG 7800

Current version : 1.0.4, issued: 25.11.2022

Replaced version: 1.0.3, issued: 08.04.2022

Region: GB

## 6.2 Environmental precautions

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

## 6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Collect mechanically.

## 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Do not pierce or burn, even after use.

#### General protective and hygiene measures

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

#### Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking. Isolate from sources of heat, sparks and open flame.

### 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. Protect from heat and direct sunlight. Storage temperature may not exceed 50°C (=122°F).

#### Recommended storage temperature

Value max. 50 °C

#### 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, see section 10.

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

| No | Substance name   | CAS no.  | EC no.    |
|----|--|--|-----------|
| 1  | ethanol  | 64-17-5  | 200-578-6 |
|    | List of approved workplace exposure limits (WELs) / EH40 |  |           |
|    | Ethanol  |  |           |
|    | WEL long-term (8-hr TWA reference period)                | 1920 mg/m <sup>3</sup>   | 1000 ppm  |
| 2  | butane   | 106-97-8   | 203-448-7 |
|    | List of approved workplace exposure limits (WELs) / EH40 |  |           |
|    | Butane   |  |           |
|    | WEL short-term (15 min reference period)                 | 1810 mg/m <sup>3</sup>   | 750 ppm   |
|    | WEL long-term (8-hr TWA reference period)                | 1450 mg/m <sup>3</sup>   | 600 ppm   |
|    | Comments   | Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene) |           |
| 3  | propan-2-ol  | 67-63-0  | 200-661-7 |
|    | List of approved workplace exposure limits (WELs) / EH40 |  |           |

# EU safety data sheet

Trade name: KRONES celerol DG 7800

Current version : 1.0.4, issued: 25.11.2022

Replaced version: 1.0.3, issued: 08.04.2022

Region: GB

|   |  |      |                   |         |
|---|--|------|-------------------|---------|
| Propan-2-ol                               |  |      |                   |         |
| WEL short-term (15 min reference period)  |  | 1250 | mg/m <sup>3</sup> | 500 ppm |
| WEL long-term (8-hr TWA reference period) |  | 999  | mg/m <sup>3</sup> | 400 ppm |

## DNEL, DMEL and PNEC values

### DNEL values (worker)

| No | Substance name  |                     |          | CAS / EC no          |                   |
|----|---|---------------------|----------|----------------------|-------------------|
|    | Route of exposure   | Exposure time       | Effect   | Value                |                   |
| 1  | ethanol   |                     |          | 64-17-5<br>200-578-6 |                   |
|    | dermal  | Long term (chronic) | systemic | 343                  | mg/kg/day         |
|    | inhalative  | Long term (chronic) | systemic | 950                  | mg/m <sup>3</sup> |
| 2  | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics |                     |          | -<br>927-241-2       |                   |
|    | dermal  | Long term (chronic) | systemic | 208                  | mg/kg/day         |
|    | inhalative  | Long term (chronic) | systemic | 871                  | mg/m <sup>3</sup> |
| 3  | propan-2-ol   |                     |          | 67-63-0<br>200-661-7 |                   |
|    | dermal  | Long term (chronic) | systemic | 888                  | mg/kg/day         |
|    | inhalative  | Long term (chronic) | systemic | 500                  | mg/m <sup>3</sup> |

### DNEL value (consumer)

| No | Substance name  |                     |          | CAS / EC no          |                   |
|----|---|---------------------|----------|----------------------|-------------------|
|    | Route of exposure   | Exposure time       | Effect   | Value                |                   |
| 1  | ethanol   |                     |          | 64-17-5<br>200-578-6 |                   |
|    | oral  | Long term (chronic) | systemic | 87                   | mg/kg/day         |
|    | dermal  | Long term (chronic) | systemic | 206                  | mg/kg/day         |
|    | inhalative  | Long term (chronic) | systemic | 114                  | mg/m <sup>3</sup> |
| 2  | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics |                     |          | -<br>927-241-2       |                   |
|    | oral  | Long term (chronic) | systemic | 125                  | mg/kg/day         |
|    | dermal  | Long term (chronic) | systemic | 125                  | mg/kg/day         |
|    | inhalative  | Long term (chronic) | systemic | 185                  | mg/m <sup>3</sup> |
| 3  | propan-2-ol   |                     |          | 67-63-0<br>200-661-7 |                   |
|    | oral  | Long term (chronic) | systemic | 26                   | mg/kg/day         |
|    | dermal  | Long term (chronic) | systemic | 319                  | mg/kg/day         |
|    | inhalative  | Long term (chronic) | systemic | 89                   | mg/m <sup>3</sup> |

### PNEC values

| No    | Substance name         |                       | CAS / EC no          |                      |
|-------|------------------------|-----------------------|----------------------|----------------------|
|       | ecological compartment | Type                  | Value                |                      |
| 1     | ethanol                |                       | 64-17-5<br>200-578-6 |                      |
|       | water                  | fresh water           | 0.96                 | mg/L                 |
|       | water                  | Aqua intermittent     | 2.75                 | mg/L                 |
|       | water                  | marine water          | 0.79                 | mg/L                 |
|       | water                  | fresh water sediment  | 3.6                  | mg/kg dry weight     |
|       | water                  | marine water sediment | 2.9                  | mg/L                 |
|       | soil                   | -                     | 0.63                 | mg/kg dry weight     |
|       | sewage treatment plant | -                     | 580                  | mg/L                 |
|       | secondary poisoning    | -                     | 0.38                 | mg/kg food           |
|       | 2                      | propan-2-ol           |                      | 67-63-0<br>200-661-7 |
| water |                        | fresh water           | 140.9                | mg/L                 |
| water |                        | Aqua intermittent     | 140.9                | mg/L                 |
| water |                        | marine water          | 140.9                | mg/L                 |
| water |                        | fresh water sediment  | 552                  | mg/L                 |

# EU safety data sheet

Trade name: KRONES celerol DG 7800

Current version : 1.0.4, issued: 25.11.2022

Replaced version: 1.0.3, issued: 08.04.2022

Region: GB

|                         |                       |      |       |
|-------------------------|-----------------------|------|-------|
| water                   | marine water sediment | 552  | mg/L  |
| soil                    | -                     | 28   | mg/kg |
| sewage treatment plant  | -                     | 2251 | mg/L  |
| secondary poisoning     | -                     | 160  | mg/kg |
| with reference to: food |                       |      |       |

## 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 aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator AX/P2

#### 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 NBR

Material thickness >= 0.38 mm

Breakthrough time >= 480 min

#### 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>State of aggregation</b>          |       |
| liquid                               |       |
| <b>Form</b>                          |       |
| gas type; Aerosol                    |       |
| <b>Colour</b>                        |       |
| colourless                           |       |
| <b>Odour</b>                         |       |
| characteristic                       |       |
| <b>pH value</b>                      |       |
| No data available                    |       |
| <b>Boiling point / boiling range</b> |       |
| Value                                | 78 °C |
| <b>Melting point/freezing point</b>  |       |
| No data available                    |       |
| <b>Decomposition temperature</b>     |       |
| No data available                    |       |
| <b>Flash point</b>                   |       |

# EU safety data sheet

Trade name: KRONES celerol DG 7800

Current version : 1.0.4, issued: 25.11.2022

Replaced version: 1.0.3, issued: 08.04.2022

Region: GB

|        |           |     |    |
|--------|-----------|-----|----|
| Value  | <         | -60 | °C |
| Method | DIN 51755 |     |    |

| Ignition temperature |           |     |    |
|----------------------|-----------|-----|----|
| Value                | min.      | 200 | °C |
| Method               | DIN 51794 |     |    |

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

| Lower explosion limit |  |  |  |
|-----------------------|--|--|--|
| No data available     |  |  |  |

| Upper explosion limit |  |  |  |
|-----------------------|--|--|--|
| No data available     |  |  |  |

| Vapour pressure   |  |  |  |
|-------------------|--|--|--|
| No data available |  |  |  |

| Relative vapour density |  |  |  |
|-------------------------|--|--|--|
| No data available       |  |  |  |

| Relative density  |  |  |  |
|-------------------|--|--|--|
| No data available |  |  |  |

| Density               |           |      |                   |
|-----------------------|-----------|------|-------------------|
| Value                 |           | 0.82 | g/cm <sup>3</sup> |
| Reference temperature |           | 15   | °C                |
| Method                | DIN 51757 |      |                   |

| Solubility in water |                |
|---------------------|----------------|
| Comments            | partly soluble |

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

| Partition coefficient n-octanol/water (log value) |                       |          |           |
|---|-----------------------|----------|-----------|
| No  | Substance name        | CAS no.  | EC no.    |
| 1   | ethanol               | 64-17-5  | 200-578-6 |
|   | log Pow               |          | -0.35     |
|   | Reference temperature |          | 24 °C     |
|   | with reference to     | pH 7,4   |           |
|   | Method                | OECD 107 |           |
|   | Source                | ECHA     |           |
| 2   | propane               | 74-98-6  | 200-827-9 |
|   | log Pow               | appr.    | 1.8       |
|   | Method                | QSAR     |           |
|   | Source                | ECHA     |           |
| 3   | isobutane             | 75-28-5  | 200-857-2 |
|   | log Pow               |          | 2.80      |
|   | Reference temperature |          | 20 °C     |
|   | with reference to     | pH 7     |           |
|   | Source                | ECHA     |           |
| 4   | propan-2-ol           | 67-63-0  | 200-661-7 |
|   | log Pow               |          | 0.05      |
|   | Reference temperature |          | 25 °C     |
|   | Source                | ECHA     |           |

| Kinematic viscosity |  |
|---------------------|--|
| No data available   |  |

| Particle characteristics |  |
|--------------------------|--|
| No data available        |  |

## 9.2 Other information

| Other information  |  |
|--------------------|--|
| No data available. |  |

# EU safety data sheet

Trade name: KRONES celerol DG 7800

Current version : 1.0.4, issued: 25.11.2022

Replaced version: 1.0.3, issued: 08.04.2022

Region: GB

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

### 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

strong oxidizing agents; strong acids; strong bases

### 10.6 Hazardous decomposition products

None, if handled according to intended use.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

| Acute oral toxicity         |   |         |                  |
|-----------------------------|---|---------|------------------|
| No                          | Substance name  | CAS no. | EC no.           |
| 1                           | ethanol   | 64-17-5 | 200-578-6        |
| LD50                        |   | 10470   | mg/kg bodyweight |
| Species                     | rat   |         |                  |
| with reference to           | 95% ethanol in water  |         |                  |
| Method                      | OECD 401  |         |                  |
| Source                      | ECHA  |         |                  |
| Evaluation/classification   | Based on available data, the classification criteria are not met. |         |                  |
| 2                           | propan-2-ol   | 67-63-0 | 200-661-7        |
| LD50                        |   | 5840    | mg/kg bodyweight |
| Species                     | rat   |         |                  |
| Method                      | OECD 401  |         |                  |
| Source                      | ECHA  |         |                  |
| Evaluation/classification   | Based on available data, the classification criteria are not met. |         |                  |
| Acute dermal toxicity       |   |         |                  |
| No data available           |   |         |                  |
| Acute inhalational toxicity |   |         |                  |
| No                          | Substance name  | CAS no. | EC no.           |
| 1                           | ethanol   | 64-17-5 | 200-578-6        |
| LC50                        |   | 124.7   | mg/l             |
| Duration of exposure        |   | 4       | h                |
| State of aggregation        | Vapour  |         |                  |
| Species                     | rat   |         |                  |
| Method                      | OECD 403  |         |                  |
| Source                      | ECHA  |         |                  |
| Evaluation/classification   | Based on available data, the classification criteria are not met. |         |                  |
| 2                           | propane   | 74-98-6 | 200-827-9        |
| LC50                        | >   | 800000  | ppmV             |
| Duration of exposure        |   | 0.25    | h                |
| State of aggregation        | Gas   |         |                  |
| Species                     | rat   |         |                  |
| Source                      | ECHA  |         |                  |
| Evaluation/classification   | Based on available data, the classification criteria are not met. |         |                  |
| 3                           | isobutane   | 75-28-5 | 200-857-2        |
| LC50                        |   | 520400  | ppmV             |
| Duration of exposure        |   | 2       | h                |
| State of aggregation        | Gas   |         |                  |



# EU safety data sheet

**Trade name:** KRONES celerol DG 7800

**Current version :** 1.0.4, issued: 25.11.2022

**Replaced version:** 1.0.3, issued: 08.04.2022

**Region:** GB

|                           |   |
|---------------------------|---|
| Species                   | mouse   |
| Source                    | ECHA  |
| Evaluation/classification | Based on available data, the classification criteria are not met. |
| <b>4</b>                  | <b>propan-2-ol</b> <b>67-63-0</b> <b>200-661-7</b>                |
| LC50                      | > 10000 ppmV  |
| Duration of exposure      | 6 h   |
| State of aggregation      | Vapour  |
| Species                   | rat   |
| Method                    | OECD 403  |
| Source                    | ECHA  |
| Evaluation/classification | Based on available data, the classification criteria are not met. |

| Skin corrosion/irritation |   |                          |
|---------------------------|---|--------------------------|
| No                        | Substance name  | CAS no. EC no.           |
| 1                         | ethanol   | 64-17-5 200-578-6        |
| Species                   | rabbit  |                          |
| Method                    | OECD 404  |                          |
| Source                    | ECHA  |                          |
| Evaluation                | non-irritant  |                          |
| Evaluation/classification | Based on available data, the classification criteria are not met. |                          |
| <b>2</b>                  | <b>propan-2-ol</b>  | <b>67-63-0 200-661-7</b> |
| Species                   | rabbit  |                          |
| Source                    | ECHA  |                          |
| Evaluation                | non-irritant  |                          |
| Evaluation/classification | Based on available data, the classification criteria are not met. |                          |

| Serious eye damage/irritation |   |                          |
|-------------------------------|---|--------------------------|
| No                            | Substance name  | CAS no. EC no.           |
| 1                             | ethanol   | 64-17-5 200-578-6        |
| Species                       | rabbit  |                          |
| Method                        | OECD 405  |                          |
| Source                        | ECHA  |                          |
| Evaluation                    | irritant  |                          |
| Evaluation/classification     | Based on available data, the classification criteria are met. |                          |
| <b>2</b>                      | <b>propan-2-ol</b>  | <b>67-63-0 200-661-7</b> |
| Species                       | rabbit  |                          |
| Method                        | OECD 405  |                          |
| Source                        | ECHA  |                          |
| Evaluation                    | irritant  |                          |
| Evaluation/classification     | Based on available data, the classification criteria are met. |                          |

| Respiratory or skin sensitisation |   |                          |
|-----------------------------------|---|--------------------------|
| No                                | Substance name  | CAS no. EC no.           |
| 1                                 | ethanol   | 64-17-5 200-578-6        |
| Route of exposure                 | respiratory tract   |                          |
| Source                            | ECHA  |                          |
| Evaluation                        | non-sensitizing   |                          |
| Evaluation/classification         | Based on available data, the classification criteria are not met. |                          |
| Route of exposure                 | Skin  |                          |
| Species                           | mouse   |                          |
| Source                            | ECHA  |                          |
| Evaluation                        | non-sensitizing   |                          |
| Evaluation/classification         | Based on available data, the classification criteria are not met. |                          |
| <b>2</b>                          | <b>propan-2-ol</b>  | <b>67-63-0 200-661-7</b> |
| Route of exposure                 | Skin  |                          |
| Species                           | guinea pig  |                          |
| Method                            | OECD 406  |                          |
| Source                            | ECHA  |                          |
| Evaluation                        | non-sensitizing   |                          |
| Evaluation/classification         | Based on available data, the classification criteria are not met. |                          |

| Germ cell mutagenicity |                |                |
|------------------------|----------------|----------------|
| No                     | Substance name | CAS no. EC no. |

# EU safety data sheet

**Trade name:** KRONES celerol DG 7800

**Current version :** 1.0.4, issued: 25.11.2022

**Replaced version:** 1.0.3, issued: 08.04.2022

**Region:** GB

| <b>1</b>                  | <b>ethanol</b>     | <b>64-17-5</b>  | <b>200-578-6</b> |
|---------------------------|--------------------|---|------------------|
| Type of examination       |                    | in vitro gene mutation study in bacteria                          |                  |
| Species                   |                    | Salmonella typhimurium  |                  |
| Method                    |                    | OECD 471  |                  |
| Source                    |                    | ECHA  |                  |
| Evaluation/classification |                    | Based on available data, the classification criteria are not met. |                  |
| Type of examination       |                    | in vitro gene mutation study in mammalian cells                   |                  |
| Species                   |                    | mouse lymphoma cells  |                  |
| Method                    |                    | OECD 476  |                  |
| Source                    |                    | ECHA  |                  |
| Evaluation/classification |                    | Based on available data, the classification criteria are not met. |                  |
| Type of examination       |                    | Genotoxicity in vivo  |                  |
| Species                   |                    | mouse   |                  |
| Method                    |                    | OECD 478  |                  |
| Source                    |                    | ECHA  |                  |
| Evaluation/classification |                    | Based on available data, the classification criteria are not met. |                  |
| <b>2</b>                  | <b>butane</b>      | <b>106-97-8</b>   | <b>203-448-7</b> |
| Type of examination       |                    | In vitro Mammalian Chromosomal Aberration Test                    |                  |
| Species                   |                    | Human Lymphocyte  |                  |
| Method                    |                    | OECD 473  |                  |
| Source                    |                    | ECHA  |                  |
| Evaluation/classification |                    | Based on available data, the classification criteria are not met. |                  |
| Type of examination       |                    | in vitro gene mutation study in bacteria                          |                  |
| Species                   |                    | Salmonella typhimurium  |                  |
| Method                    |                    | OECD 471  |                  |
| Source                    |                    | ECHA  |                  |
| Evaluation/classification |                    | Based on available data, the classification criteria are not met. |                  |
| <b>3</b>                  | <b>propane</b>     | <b>74-98-6</b>  | <b>200-827-9</b> |
| Route of exposure         |                    | inhalational  |                  |
| Species                   |                    | Salmonella typhimurium  |                  |
| Method                    |                    | OECD 471  |                  |
| Source                    |                    | ECHA  |                  |
| Evaluation/classification |                    | Based on available data, the classification criteria are not met. |                  |
| <b>4</b>                  | <b>isobutane</b>   | <b>75-28-5</b>  | <b>200-857-2</b> |
| Species                   |                    | Salmonella typhimurium  |                  |
| Method                    |                    | Value taken from the literature                                   |                  |
| Source                    |                    | ECHA  |                  |
| Evaluation/classification |                    | Based on available data, the classification criteria are not met. |                  |
| <b>5</b>                  | <b>propan-2-ol</b> | <b>67-63-0</b>  | <b>200-661-7</b> |
| Source                    |                    | ECHA  |                  |
| Evaluation/classification |                    | Based on available data, the classification criteria are not met. |                  |

## Reproduction toxicity

| <b>No</b>                 | <b>Substance name</b> | <b>CAS no.</b>  | <b>EC no.</b>    |
|---------------------------|-----------------------|---|------------------|
| <b>1</b>                  | <b>ethanol</b>        | <b>64-17-5</b>  | <b>200-578-6</b> |
| Route of exposure         |                       | oral  |                  |
| NOAEL                     |                       |   |                  |
| Type of examination       |                       | 2 generation study  |                  |
| Species                   |                       | mouse   |                  |
| Method                    |                       | OECD 416  |                  |
| Source                    |                       | ECHA  |                  |
| Evaluation/classification |                       | Based on available data, the classification criteria are not met. |                  |
| Route of exposure         |                       | inhalational  |                  |
| NOAEL                     |                       | >= 20000  | ppm              |
| Type of examination       |                       | Prenatal Developmental Toxicity Study                             |                  |
| Species                   |                       | rat   |                  |
| Method                    |                       | OECD 414  |                  |
| Source                    |                       | ECHA  |                  |
| Evaluation/classification |                       | Based on available data, the classification criteria are not met. |                  |
| <b>2</b>                  | <b>butane</b>         | <b>106-97-8</b>   | <b>203-448-7</b> |
| Route of exposure         |                       | inhalational  |                  |
| Species                   |                       | rat   |                  |
| Method                    |                       | OECD 422  |                  |

# EU safety data sheet

**Trade name:** KRONES celerol DG 7800

**Current version :** 1.0.4, issued: 25.11.2022

**Replaced version:** 1.0.3, issued: 08.04.2022

**Region:** GB

|                             |   |
|-----------------------------|---|
| Source                      | ECHA  |
| Evaluation/classification   | Based on available data, the classification criteria are not met. |
| <b>3</b>   <b>propane</b>   | <b>74-98-6</b> <b>200-827-9</b>                                   |
| Route of exposure           | inhalational  |
| Species                     | rat   |
| Method                      | OECD 422  |
| Source                      | ECHA  |
| Evaluation/classification   | Based on available data, the classification criteria are not met. |
| <b>4</b>   <b>isobutane</b> | <b>75-28-5</b> <b>200-857-2</b>                                   |
| Route of exposure           | inhalational  |
| Species                     | rat   |
| Method                      | OECD 422  |
| Source                      | ECHA  |
| Evaluation/classification   | Based on available data, the classification criteria are not met. |

| <b>Carcinogenicity</b>    |   |         |           |
|---------------------------|---|---------|-----------|
| No                        | Substance name  | CAS no. | EC no.    |
| 1                         | ethanol   | 64-17-5 | 200-578-6 |
| Source                    | ECHA  |         |           |
| Evaluation/classification | Based on available data, the classification criteria are not met. |         |           |

| <b>STOT - single exposure</b> |  |
|-------------------------------|--|
| No data available             |  |

| <b>STOT - repeated exposure</b> |   |                  |           |
|---------------------------------|---|------------------|-----------|
| No                              | Substance name  | CAS no.          | EC no.    |
| 1                               | ethanol   | 64-17-5          | 200-578-6 |
| Route of exposure               | oral  |                  |           |
| Duration of exposure            | 14  | week/s           |           |
| Species                         | rat   |                  |           |
| Target organ                    | kidneys   |                  |           |
| Method                          | OECD 408  |                  |           |
| Source                          | ECHA  |                  |           |
| Evaluation/classification       | Based on available data, the classification criteria are not met. |                  |           |
| <b>2</b>   <b>butane</b>        | <b>106-97-8</b>   | <b>203-448-7</b> |           |
| Route of exposure               | inhalational  |                  |           |
| Species                         | rat   |                  |           |
| Method                          | OECD 422  |                  |           |
| Source                          | ECHA  |                  |           |
| Evaluation/classification       | Based on available data, the classification criteria are not met. |                  |           |
| <b>3</b>   <b>propane</b>       | <b>74-98-6</b>  | <b>200-827-9</b> |           |
| Route of exposure               | inhalational  |                  |           |
| Species                         | rat   |                  |           |
| Method                          | OECD 422  |                  |           |
| Source                          | ECHA  |                  |           |
| Evaluation/classification       | Based on available data, the classification criteria are not met. |                  |           |
| <b>4</b>   <b>isobutane</b>     | <b>75-28-5</b>  | <b>200-857-2</b> |           |
| Route of exposure               | inhalational  |                  |           |
| Species                         | rat   |                  |           |
| Method                          | OECD 422  |                  |           |
| Source                          | ECHA  |                  |           |
| Evaluation/classification       | Based on available data, the classification criteria are not met. |                  |           |
| <b>5</b>   <b>propan-2-ol</b>   | <b>67-63-0</b>  | <b>200-661-7</b> |           |
| Route of exposure               | inhalational  |                  |           |
| Source                          | ECHA  |                  |           |
| Evaluation/classification       | Based on available data, the classification criteria are not met. |                  |           |

| <b>Aspiration hazard</b> |  |
|--------------------------|--|
| No data available        |  |

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available.

# EU safety data sheet

Trade name: KRONES celerol DG 7800

Current version : 1.0.4, issued: 25.11.2022

Replaced version: 1.0.3, issued: 08.04.2022

Region: GB

## Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Toxicity to fish (acute)      |   |         |           |
|-------------------------------|---|---------|-----------|
| No                            | Substance name  | CAS no. | EC no.    |
| 1                             | ethanol   | 64-17-5 | 200-578-6 |
| LC50                          |   | 14200   | mg/l      |
| Duration of exposure          |   | 96      | h         |
| Species                       | Pimephales promelas   |         |           |
| Method                        | EPA   |         |           |
| Source                        | ECHA  |         |           |
| 2                             | propan-2-ol   | 67-63-0 | 200-661-7 |
| LC50                          |   | 9640    | mg/l      |
| Duration of exposure          |   | 96      | h         |
| Species                       | Pimephales promelas   |         |           |
| Method                        | OECD 203  |         |           |
| Source                        | ECHA  |         |           |
| Toxicity to fish (chronic)    |   |         |           |
| No data available             |   |         |           |
| Toxicity to Daphnia (acute)   |   |         |           |
| No                            | Substance name  | CAS no. | EC no.    |
| 1                             | ethanol   | 64-17-5 | 200-578-6 |
| EC50                          |   | 5012    | mg/l      |
| Duration of exposure          |   | 48      | h         |
| Species                       | Ceriodaphnia dubia  |         |           |
| Method                        | ASTM Standard E 729-80  |         |           |
| Source                        | ECHA  |         |           |
| 2                             | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | -       | 927-241-2 |
| EL50                          | > 22  | - 46    | mg/l      |
| Duration of exposure          |   | 48      | h         |
| Species                       | Daphnia magna   |         |           |
| Method                        | OECD 202  |         |           |
| Source                        | ECHA  |         |           |
| 3                             | propan-2-ol   | 67-63-0 | 200-661-7 |
| EC50                          | >   | 10000   | mg/l      |
| Duration of exposure          |   | 24      | h         |
| Species                       | Daphnia magna   |         |           |
| Method                        | OECD 202  |         |           |
| Source                        | ECHA  |         |           |
| Toxicity to Daphnia (chronic) |   |         |           |
| No                            | Substance name  | CAS no. | EC no.    |
| 1                             | ethanol   | 64-17-5 | 200-578-6 |
| NOEC                          |   | 9.6     | mg/l      |
| Duration of exposure          |   | 9       | day(s)    |
| Species                       | Daphnia magna   |         |           |
| Source                        | ECHA  |         |           |
| Toxicity to algae (acute)     |   |         |           |
| No                            | Substance name  | CAS no. | EC no.    |
| 1                             | ethanol   | 64-17-5 | 200-578-6 |
| EC50                          |   | 275     | mg/l      |
| Duration of exposure          |   | 72      | h         |
| Species                       | Chlorella vulgaris  |         |           |
| Method                        | OECD 201  |         |           |
| Source                        | ECHA  |         |           |

# EU safety data sheet

**Trade name:** KRONES celerol DG 7800

**Current version :** 1.0.4, issued: 25.11.2022

**Replaced version:** 1.0.3, issued: 08.04.2022

**Region:** GB

|                                    |
|------------------------------------|
| <b>Toxicity to algae (chronic)</b> |
| No data available                  |
| <b>Bacteria toxicity</b>           |
| No data available                  |

## 12.2 Persistence and degradability

| <b>Biodegradability</b> |   |          |           |
|-------------------------|---|----------|-----------|
| No                      | Substance name  | CAS no.  | EC no.    |
| 1                       | ethanol   | 64-17-5  | 200-578-6 |
| Type                    | aerobic biodegradation  |          |           |
| Value                   | appr.   | 84       | %         |
| Duration                |   | 20       | day(s)    |
| Source                  | ECHA  |          |           |
| Evaluation              | readily biodegradable   |          |           |
| 2                       | butane  | 106-97-8 | 203-448-7 |
| Type                    | aerobic biodegradation  |          |           |
| Value                   |   | 50       | %         |
| Duration                |   | 3.46     | d         |
| Method                  | QSAR  |          |           |
| Source                  | ECHA  |          |           |
| 3                       | propane   | 74-98-6  | 200-827-9 |
| Type                    | aerobic biodegradation  |          |           |
| Value                   |   | 50       | %         |
| Duration                |   | 3        | d         |
| Method                  | QSAR  |          |           |
| Source                  | ECHA  |          |           |
| Evaluation              | readily biodegradable   |          |           |
| 4                       | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | -        | 927-241-2 |
| Type                    | aerobic biodegradation  |          |           |
| Value                   |   | 89       | %         |
| Duration                |   | 28       | day(s)    |
| Method                  | OECD 301 F  |          |           |
| Source                  | ECHA  |          |           |
| Evaluation              | readily biodegradable   |          |           |
| 5                       | isobutane   | 75-28-5  | 200-857-2 |
| Type                    | aerobic biodegradation  |          |           |
| Value                   |   | 50       | %         |
| Duration                |   | 3.1      | d         |
| Method                  | QSAR  |          |           |
| Source                  | ECHA  |          |           |
| Evaluation              | readily biodegradable   |          |           |
| 6                       | propan-2-ol   | 67-63-0  | 200-661-7 |
| Type                    | BOD/COD   |          |           |
| Value                   |   | 53       | %         |
| Duration                |   | 5        | day(s)    |
| Source                  | ECHA  |          |           |
| Evaluation              | readily biodegradable   |          |           |

## 12.3 Bioaccumulative potential

| <b>Partition coefficient n-octanol/water (log value)</b> |                |         |           |
|--|----------------|---------|-----------|
| No   | Substance name | CAS no. | EC no.    |
| 1  | ethanol        | 64-17-5 | 200-578-6 |
| log Pow  |                | -0.35   |           |
| Reference temperature                                    |                | 24      | °C        |
| with reference to  | pH 7,4         |         |           |
| Method   | OECD 107       |         |           |
| Source   | ECHA           |         |           |
| 2  | propane        | 74-98-6 | 200-827-9 |
| log Pow  | appr.          | 1.8     |           |
| Method   | QSAR           |         |           |

# EU safety data sheet

Trade name: KRONES celerol DG 7800

Current version : 1.0.4, issued: 25.11.2022

Replaced version: 1.0.3, issued: 08.04.2022

Region: GB

|                       |                    |                |                  |
|-----------------------|--------------------|----------------|------------------|
| Source                | ECHA               |                |                  |
| <b>3</b>              | <b>isobutane</b>   | <b>75-28-5</b> | <b>200-857-2</b> |
| log Pow               |                    | 2.80           |                  |
| Reference temperature |                    | 20             | °C               |
| with reference to     | pH 7               |                |                  |
| Source                | ECHA               |                |                  |
| <b>4</b>              | <b>propan-2-ol</b> | <b>67-63-0</b> | <b>200-661-7</b> |
| log Pow               |                    | 0.05           |                  |
| Reference temperature |                    | 25             | °C               |
| Source                | ECHA               |                |                  |

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Endocrine disrupting properties

No data available.

## 12.7 Other adverse effects

No data available.

## 12.8 Other information

### Other information

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable 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

Residues 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 2  
Classification code 5F  
UN number UN1950  
Proper shipping name AEROSOLS  
Tunnel restriction code D  
Label 2.1

### 14.2 Transport IMDG

Class 2  
UN number UN1950  
Proper shipping name AEROSOLS  
EmS F-D, S-U  
Label 2.1

### 14.3 Transport ICAO-TI / IATA

Class 2.1  
UN number UN1950  
Proper shipping name Aerosols, flammable  
Label 2.1

### 14.4 Other information

# EU safety data sheet

Trade name: KRONES celerol DG 7800

Current version : 1.0.4, issued: 25.11.2022

Replaced version: 1.0.3, issued: 08.04.2022

Region: GB

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 Maritime transport in bulk according to IMO instruments

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**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that 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.

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

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3

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  | propan-2-ol    | 67-63-0 | 200-661-7 | 75 |

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

This product is subject to Part I of Annex I, risk category: P3a

##### **Other regulations**

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

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## 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.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

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 section.

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

|      |   |
|------|---|
| H220 | Extremely flammable gas.                            |
| H225 | Highly flammable liquid and vapour.                 |
| H226 | Flammable liquid and vapour.                        |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways.       |
| H319 | Causes serious eye irritation.                      |
| H336 | May cause drowsiness or dizziness.                  |
| H412 | Harmful to aquatic life with long lasting effects.  |

# EU safety data sheet

---

**Trade name:** KRONES celerol DG 7800

**Current version :** 1.0.4, issued: 25.11.2022

**Replaced version:** 1.0.3, issued: 08.04.2022

**Region:** GB

---

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

- C Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- U When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

**Creation of the 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](mailto: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:

Alterations to the previous edition are marked in the left-hand margin.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.  
Prod-ID 771566