

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**
**1.1 Product identifier**

**KRONES celerol LU 7602**  
**Article number: 0903088789**

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

Grease

**1.2.2 Uses advised against**

None known.

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

**Company** KIC KRONES Internationale Cooperationsgesellschaft mbH  
 Böhmerwaldstraße 5  
 93073 Neutraubling / GERMANY  
 Phone +49 9401 70-3020  
 Fax +49 9401 70-3696  
 Homepage www.kic-krones.com  
 E-mail kic@kic-krones.com

**Address enquiries to**

**Technical information** kic@kic-krones.com

**Safety Data Sheet** sdb@chemiebueero.de

**1.4 Emergency telephone number**

**Advisory body** +49 (0)89-19240 (24h) (english)

**SECTION 2: Hazards identification**
**2.1 Classification of the substance or mixture**

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

**Hazard pictograms** none

**Signal word** none

**Hazard statements** H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** P273 Avoid release to the environment.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

**2.3 Other hazards**

**Human health dangers** Frequent persistent contact with the skin can cause skin irritation.

**Environmental hazards** The product/the substance has the Water Hazard Class 2.

**Other hazards** Further hazards were not determined with the current level of knowledge.

### SECTION 3: Composition / Information on ingredients

#### Product-type:

The product is a mixture.

Range [%]	Substance
0,25 - < 1	2,6-di-tert-butyl-p-cresol CAS: 128-37-0, EINECS/ELINCS: 204-881-4 GHS/CLP: Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 1
0,25 - < 1	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine CAS: 110-25-8, EINECS/ELINCS: 203-749-3 GHS/CLP: Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Acute Tox. 4: H332 - Aquatic Acute 1: H400, M = 1
0,25 - < 1	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol CAS: 95-38-5, EINECS/ELINCS: 202-414-9 GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - STOT RE 2: H373, M = 10

#### Comment on component parts

Synthetic hydrocarbon oil, aluminium complex soap.  
Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  
All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.  
For full text of H-statements: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information

Take off contaminated clothing and wash before reuse.

##### Inhalation

Ensure supply of fresh air.  
In the event of symptoms seek medical treatment.

##### Skin contact

In case of contact with skin wash off immediately with soap and water.  
Consult a doctor if skin irritation persists.

##### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

##### Ingestion

Do not induce vomiting.  
Rinse mouth.  
Seek medical advice.

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

No information available.

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

Treat symptomatically.  
Forward this sheet to the doctor.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

foam, dry powder, water spray jet, carbon dioxide

##### Extinguishing media that must not be used

Full water jet

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

Risk of formation of toxic pyrolysis products.  
Carbon monoxide (CO)  
Not combusted hydrocarbons.  
Phosphorus oxides (POx).  
Metal oxides.  
Nitrogen oxides (NOx).

**5.3 Advice for firefighters**

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Use personal protective equipment.

Some risk of slipping due to spillage of product.

**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.

Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).

Dispose of absorbed material in accordance within the regulations.

**6.4 Reference to other sections**

See SECTION 8+13

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Use only in well-ventilated areas.

Avoid contact with eyes and skin. Use personal protective equipment.

Do not eat, drink, smoke or take drugs at work.

Take off contaminated clothing and wash before reuse.

Wash hands before breaks and after work.

Use barrier skin cream.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep only in original container.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

Keep in a cool place. Store in a dry place.

**7.3 Specific end use(s)**

See product use, SECTION 1.2

**SECTION 8: Exposure controls / personal protection****8.1 Control parameters**

Ingredients with occupational exposure limits to be monitored (GB)

Substance
2,6-di-tert-butyl-p-cresol
CAS: 128-37-0, EINECS/ELINCS: 204-881-4
Long-term exposure: 10 mg/m <sup>3</sup>

## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	safety glasses (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,11 mm, Butyl rubber, >240 min (EN 374-1/-2/-3).
<b>Skin protection</b>	Oil-resistant protective clothing.
<b>Other</b>	Avoid contact with eyes and skin. Do not inhale gases/vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	If ventilation is insufficient, wear respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	Comply with applicable environmental regulations limiting discharge to air, water and soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form</b>	Grease pasty
<b>Color</b>	beige
<b>Odor</b>	product specific
<b>Odour threshold</b>	No information available.
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	No information available.
<b>Flash point [°C]</b>	not applicable
<b>Flammability (solid, gas) [°C]</b>	No information available.
<b>Lower explosion limit</b>	No information available.
<b>Upper explosion limit</b>	No information available.
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	< 0,0001 (20°C)
<b>Density [g/ml]</b>	0,89 (20 °C / 68,0 °F)
<b>Bulk density [kg/m<sup>3</sup>]</b>	No information available.
<b>Solubility in water</b>	insoluble
<b>Partition coefficient [n-octanol/water]</b>	No information available.
<b>Viscosity</b>	not applicable
<b>Relative vapour density determined in air</b>	No information available.
<b>Evaporation speed</b>	No information available.
<b>Melting point [°C]</b>	> 250 °C (DIN ISO 2176)
<b>Autoignition temperature [°C]</b>	No information available.
<b>Decomposition temperature [°C]</b>	No information available.

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

See SECTION 10.3.

### 10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.

No dangerous reactions known if used as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Substance
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, CAS: 110-25-8
LD50, oral, Rat: >2000 mg/kg bw.
LC50, inhalative, Rat: 1,37 mg/L (4h).
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol, CAS: 95-38-5
LD50, oral, Rat: 200-2000 mg/kg.
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
LD50, dermal, Rabbit: > 2000 mg/kg (Lit.).
LD50, oral, Rat: > 2930 mg/kg (Lit.).
LD50, oral, Rat: 1700 mg/kg (IUCLID).

<b>Serious eye damage/irritation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Skin corrosion/irritation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Respiratory or skin sensitisation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — single exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — repeated exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Mutagenicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Reproduction toxicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Carcinogenicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Aspiration hazard</b>	Based on the available information, the classification criteria are not fulfilled.
<b>General remarks</b>	Frequent persistent contact with the skin can cause skin irritation. Toxicological data of complete product are not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, CAS: 110-25-8
LC50, (96h), Danio rerio: 1 - 10 mg/L.
EC50, (48h), Daphnia magna: 0,68 mg/L.
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol, CAS: 95-38-5
LC50, (96h), Brachidanio rerio: < 1 mg/l (Lit.).
EC50, (72h), Algae: 0,03 - 0,09 mg/l (Lit.).
EC50, (48h), Daphnia magna: < 1 mg/l.
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
LC50, (48h), Oryzias latipes: 5 mg/l (IUCLID).
EC50, (72h), Scenedesmus subspicatus: > 0,42 mg/l (IUCLID).

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	No information available.
<b>Behaviour in sewage plant</b>	Can be separated out mechanically in purification plants.
<b>Biological degradability</b>	4,5%, 28d (CAS 128-37-0, OECD 301C), The product is not readily biodegradable. CAS 95-38-5 (OECD 301B), The product is not readily biodegradable. 85%, 28d (CAS 110-25-8, OECD 301B)

### 12.3 Bioaccumulative potential

logPow: 5,1 (CAS 128-37-0)

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

not applicable

### 12.6 Other adverse effects

Ecological data of complete product are not available.  
The product is insoluble in water.  
Do not discharge product unmonitored into the environment or into the drainage.  
The product was classified on the basis of the calculation procedure of the preparation directive.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

##### Product

Coordinate disposal with the authorities if necessary.

**Waste no. (recommended)** 130206\*

##### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

**Waste no. (recommended)** 150110\*

### SECTION 14: Transport information

#### 14.1 UN number

**Transport by land according to ADR/RID** not applicable

**Inland navigation (ADN)** not applicable

**Marine transport in accordance with IMDG** not applicable

**Air transport in accordance with IATA** not applicable

#### 14.2 UN proper shipping name

**Transport by land according to ADR/RID** NO DANGEROUS GOODS

**Inland navigation (ADN)** NO DANGEROUS GOODS

**Marine transport in accordance with IMDG** NOT CLASSIFIED AS "DANGEROUS GOODS"

**Air transport in accordance with IATA** NOT CLASSIFIED AS "DANGEROUS GOODS"

#### 14.3 Transport hazard class(es)

**Transport by land according to ADR/RID** not applicable

**Inland navigation (ADN)** not applicable

**Marine transport in accordance with IMDG** not applicable

**Air transport in accordance with IATA** not applicable

**14.4 Packing group**

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

**14.5 Environmental hazards**

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

**14.6 Special precautions for user**

Relevant information under SECTION 6 to 8.

**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**

**EEC-REGULATIONS** 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- Observe employment restrictions for people none

- VOC (2010/75/CE) 0,5%

**15.2 Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****16.1 Hazard statements (SECTION 03)**

H332 Harmful if inhaled.  
 H318 Causes serious eye damage.  
 H315 Causes skin irritation.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H400 Very toxic to aquatic life.  
 H314 Causes severe skin burns and eye damage.  
 H302 Harmful if swallowed.



**16.2 Abbreviations and acronyms:**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
 ATE = acute toxicity estimate  
 CAS = Chemical Abstracts Service  
 CLP = Classification, Labelling and Packaging  
 DMEL = Derived Minimum Effect Level  
 DNEL = Derived No Effect Level  
 EC50 = Median effective concentration  
 ECB = European Chemicals Bureau  
 EEC = European Economic Community  
 EINECS = European Inventory of Existing Commercial Chemical Substances  
 ELINCS = European List of Notified Chemical Substances  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 IC50 = Inhibition concentration, 50%  
 IMDG = International Maritime Code for Dangerous Goods  
 IUCLID = International Uniform Chemical Information Database  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 LC0 = lethal concentration, 0%  
 LOAEL = lowest-observed-adverse-effect level  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
 NOAEL = No Observed Adverse Effect Level  
 NOEC = No Observed Effect Concentration  
 PBT = Persistent, Bioaccumulative and Toxic substance  
 PNEC = Predicted No-Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 STP = Sewage Treatment Plant  
 TLV@TWA = Threshold limit value – time-weighted average  
 TLV@STEL = Threshold limit value – short-time exposure limit  
 VOC = Volatile Organic Compounds  
 vPvB = very Persistent and very Bioaccumulative

**16.3 Other information****Classification procedure**

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

**Modified position**

SECTION 4 been added: In the event of symptoms seek medical treatment.

SECTION 4 been added: Ensure supply of fresh air.

SECTION 4 been added: Take off contaminated clothing and wash before reuse.

SECTION 5 been added: Nitrogen oxides (NO<sub>x</sub>).

SECTION 7 been added: Avoid contact with eyes and skin. Use personal protective equipment.

SECTION 8 been added: Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.

SECTION 9 been added: No information available.

SECTION 9 deleted: not determined

SECTION 11 been added: Based on the available information, the classification criteria are not fulfilled.

SECTION 11 deleted: not determined

SECTION 12 been added: No information available.

SECTION 12 deleted: not determined



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