SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

KRONES celerol FL 7201
Article number 0902813198, 0902813197, 0903139410

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

1.2.1 Relevant uses

Lubricant

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 (0)9401 70-3020
Fax +49 (0)9401 70-3696
Homepage www.kic-krones.com
E-mail kic@krones.com

Address enquiries to
Technical information
kic@krones.com
Safety Data Sheet
sdb@chemiebuero.de

1.4 Emergency phone

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

not determined

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

No classification.

2.2 Label elements

Labelling according to Regulation 67/548/EEC or 1999/45/EC

The product does not require a hazard warning label in accordance with EC-directives.

Hazard symbols
none

R-phrases
none

2.3 Other hazards

Environmental hazards
Does not contain any PBT or vPvB substances.

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.

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
<th>CAS:</th>
<th>EINECS/ELINCS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 - 90</td>
<td>1-Decene, homopolymer, hydrogenated</td>
<td>68037-01-4</td>
<td>500-183-1</td>
</tr>
</tbody>
</table>

Comment on component parts
No dangerous components.
Synthetic polyalphaolefin with lubrication-active additives.
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.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
Change soaked clothing.

Inhalation
No special measures necessary.

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

Eye contact
In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Supply with medical care.

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.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media
ABC-powder.
Carbon dioxide.
Foam.
Dry sand.

Extinguishing media that must not be used
Water.

5.2 Special hazards arising from the substance or mixture
Unknown risk of formation of toxic pyrolysis products.

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 with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
High risk of slipping due to leakage/spillage of product.
Use personal protective equipment.

6.2 Environmental precautions
Do not discharge into the drains/surface waters/groundwater.
6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, 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

The normal safety precautions for handling chemicals must be observed.
The product is combustible.
Remove soiled or soaked clothing.
Do not eat or drink when working.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.
Keep only in original container.
Do not store together with oxidizing agents.
Keep container tightly closed.
Keep container in a well-ventilated place.
Store in a dry place.
Protect from heat/overheating.
Recommended storage temperature: room temperature.

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)

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
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<td>1-Decene, homopolymer, hydrogenated</td>
</tr>
</tbody>
</table>
<pre><code> | CAS: 68037-01-4, EINECS/ELINCS: 500-183-1      |
 | Long-term exposure: 5 mg/m³, OSHA PEL         |
</code></pre>

8.2 Exposure controls

Additional advice on system design

Ensure adequate ventilation on workstation.

Eye protection

Safety glasses

Hand protection

The details concerned are recommendations. Please contact the glove supplier for further information.

Gloves (oil-resistant).
Nitrile rubber, >480 min (EN 374).

Skin protection

Oil-resistant protective clothing.

Other

Avoid contact with eyes and skin.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

Respiratory protection

Not required

Thermal hazards

Not applicable

Delimitation and monitoring of the environmental exposition

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

Form: liquid
Color: colourless
Odor: odourless
Odour threshold: not applicable
pH-value: not applicable
pH-value [1%]: not applicable
Boiling point [°C]: > 280
Flash point [°C]: 273 (DIN/ISO 2592)
Flammability [°C]: > 320 (DIN 51794)
Lower explosion limit: 1 Vol.%
Upper explosion limit: 10 Vol.%
Oxidizing properties: no
Vapour pressure/gas pressure [kPa]: < 0,5 Pa
Density [g/ml]: 0,852 (ISO 12185) (15 °C / 59,0 °F)
Bulk density [kg/m³]: not applicable
Solubility in water: insoluble
Partition coefficient [n-octanol/water]: > 6
Viscosity: 220 mm²/s (40°C)(ISO 3104)
Relative vapour density determined in air: not determined
Evaporation speed: not determined
Melting point [°C]: not determined
Autoignition temperature [°C]: not determined
Decomposition temperature [°C]: > 250

9.2 Other information

Pourpoint: -48 °C (DIN EN ISO 3016)

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 strong oxidizing agents.

10.4 Conditions to avoid

To avoid thermal decomposition, do not overheat.
Avoid temperatures above 250.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No information available.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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<td>60 - 90</td>
<td>1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4</td>
</tr>
<tr>
<td></td>
<td>LD50, dermal, Rabbit: &gt; 5000 mg/kg (Lit.).</td>
</tr>
<tr>
<td></td>
<td>LD50, oral, Rat: &gt; 5000 mg/kg (Lit.).</td>
</tr>
</tbody>
</table>

Serious eye damage/irritation: not determined
Skin corrosion/irritation: not determined
Respiratory or skin sensitisation: not determined
Specific target organ toxicity — single exposure: not determined
Specific target organ toxicity — repeated exposure: not determined
Mutagenicity: not determined
Reproduction toxicity: not determined
Carcinogenicity: not determined

General remarks:
Toxicological data of complete product are not available. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Range [%]</th>
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<tbody>
<tr>
<td>60 - 90</td>
<td>1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4</td>
</tr>
<tr>
<td></td>
<td>EL50, (3h), Bacteria: &gt; 1000 mg/l (Lit.).</td>
</tr>
<tr>
<td></td>
<td>EL50, (48h), Daphnia magna: &gt; 1000 mg/l (Lit.).</td>
</tr>
<tr>
<td></td>
<td>LL50, (96h), fish: &gt; 1000 mg/l (Lit.).</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

Behaviour in environment compartments: not determined
Behaviour in sewage plant: not determined
Biological degradability: Eliminable from water.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

The product is insoluble in water.
Ecological data of complete product are not available.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
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

For recycling, consult manufacturer.

Waste no. (recommended) 130206*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150102

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

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)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable
SECTION 15: Regulatory information

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

1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC


CHIP 3 / CHIP 4

- Observe employment restrictions for people none
- VOC (1999/13/CE) not determined

15.2 Chemical safety assessment

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

SECTION 16: Other information

16.1 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
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
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
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

16.2 Other information

Customs Tariff not determined

Modified position

SECTION 3 been added: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.
SECTION 8 been added: Comply with applicable environmental regulations limiting discharge to air, water and soil.
SECTION 10 been added: To avoid thermal decomposition, do not overheat.
SECTION 11 been added: The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
SECTION 12 been added: The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.