

Created: 11.02.2013, Revision 11.02.2013

Version 01

Page 1 / 7

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

KRONES celerol LU 7601
Article number 0903088781

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

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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]****Hazard pictograms**

not applicable

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

none

R-phrases

none

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

2.2 Label elements**Labelling according to Regulation 67/548/EEC or 1999/45/EC****Hazard symbols**

none

R-phrases

none

2.3 Other hazards**Human health dangers**

Frequent persistent contact with the skin can cause skin irritation.

Other hazards

No particular hazards known.

SECTION 3: Composition / Information on ingredients**3.1 Product-type:**

The product is a mixture.

Comment on component parts

No dangerous components.
 Mineral oil product with highly refined base oils and thickeners on a carboxylic acid basis, as well as selected additives.
 Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

Created: 11.02.2013, Revision 11.02.2013

Version 01

Page 2 / 7

SECTION 4: First aid measures
4.1 Description of first aid measures

General information	Change soaked clothing.
Inhalation	not applicable
Skin contact	In case of contact with skin wash off immediately 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. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Dizziness
Nausea, vomiting.

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.
Extinguishing media that must not be used	Full water jet

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Sulphur oxides (SO_x).
Nitrogen oxides (NO_x).

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

Ensure adequate ventilation.
Use personal protective equipment.
Keep away from all sources of ignition.
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.
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

Created: 11.02.2013, Revision 11.02.2013

Version 01

Page 3 / 7

SECTION 7: Handling and storage
7.1 Precautions for safe handling

Use only in well-ventilated areas.

Keep away from open flames, hot surfaces and sources of ignition.

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.

Protect from heat/overheating.

Keep away from frost.

Recommended storage temperature: 5-40 °C.

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)

Range [%]	Substance
	Base oil
Long-term exposure: 5 mg/m ³ , OSHA PEL	

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. Butyl rubber, >480 min (EN 374).
Skin protection	Impermeable protective clothing.
Other	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 of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Do not eat, drink, smoke or take drugs at work. Remove soiled or soaked clothing. Wash hands before breaks and after work. Use barrier skin cream.
Respiratory protection	Not required under normal conditions.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties

Form	Grease
Color	light brown
Odor	like mineral oil
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	0,950 (DIN EN ISO 12185)
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	> 150 (DIN ISO 2176)
Autoignition temperature [°C]	not determined
Decomposition temperature	not determined

9.2 Other information

No information available.

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

> 200 °C - Strong heating.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.

Created: 11.02.2013, Revision 11.02.2013

Version 01

Page 5 / 7

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

LD50, oral, > 5000 mg/kg.

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** Frequent persistent contact with the skin can cause skin irritation.

No classification on the basis of the calculation procedure of the preparation directive.

SECTION 12: Ecological information**12.1 Toxicity****12.2 Persistence and degradability****Behaviour in environment compartments** not determined**Behaviour in sewage plant** not determined**Biological degradability** not determined**12.3 Bioaccumulative potential**

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

The product is insoluble in water.

No classification on the basis of the calculation procedure of the preparation directive.

Ecological data of complete product are not available.

Created: 11.02.2013, Revision 11.02.2013

Version 01

Page 6 / 7

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)

120112* spent waxes and fats

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110*

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**

EEC-REGULATIONS 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).

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

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

Observe employment restrictions for people	no
VOC (1999/13/CE)	not determined
Customs Tariff	not determined
Modified position	none