KRONES celerol FL 7307 PG

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Date of issue: 4/16/2018 Revision date: 4/16/2018 Version: 1.00

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

1.1. Product identifier

Trade name : KRONES celerol FL 7307 PG

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Lubricant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier
KIC KRONES Internationale Cooperationsgesellschaft mbH
Böhmerwaldstraße 5
93073 Neutraubling
T +49 9401 70-3020 - F +49 9401 70-3696
kic@kic-krones.de - www.kic-krones.com

Email competent person
sds@kft.de

1.4. Emergency telephone number

Emergency number : For Hazardous Materials [or Dangerous Goods] Incidents
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : -

Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P273 - Avoid release to the environment.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Preparation based on : Polyalkylene glycol oil

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
diphenyl tolyl phosphate	(CAS-No.) 26444-49-5 (EC-No.) 247-693-8	>= 0,25 - < 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
bis(methylphenyl) phenyl phosphate	(CAS-No.) 26446-73-1	>= 0,25 - < 1	Aquatic Acute 1, H400

	(EC-No.) 247-708-8		Aquatic Chronic 1, H410
triphenyl phosphate	(CAS-No.) 115-86-6 (REACH-no) 01-2119457432-41	>= 0,25 - < 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If unconscious place in recovery position and seek medical advice. If breathing stops, give artificial respiration.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist.

First-aid measures after ingestion : Move the affected person to the fresh air. Rinse mouth out with water. Drink plenty of water. Call a poison center or a doctor if you feel unwell. Do not give an unconscious person anything to drink. Unconscious: maintain adequate airway and respiration.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Phosphorus oxides. Nitrogen oxides.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information : Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Cover spill with non combustible material, e.g.: sand/earth. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Other information : Disposal must be done according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe vapour/aerosol. Wear personal protective equipment.

Hygiene measures : Hand protection : skin cream may be used. Wash hands before breaks and after work. Remove contaminated clothes. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, cool, well-ventilated area. Keep only in original container. Opened containers must be carefully closed and kept upright to avoid leakage.

Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

triphenyl phosphate (115-86-6)		
United Kingdom	Local name	Triphenyl phosphate
United Kingdom	WEL TWA (mg/m³)	3 mg/m³
United Kingdom	WEL STEL (mg/m³)	6 mg/m³
United Kingdom	Regulatory reference	EH40. HSE

triphenyl phosphate (115-86-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	5.55 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	5.2 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.9 mg/m³
Long-term - systemic effects, dermal	1.98 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.004 mg/l
PNEC aqua (marine water)	0 mg/l
PNEC aqua (intermittent, freshwater)	0.003 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.103 mg/kg dwt
PNEC sediment (marine water)	0.11 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.218 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	16.667 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	5 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Nitrile rubber	No information available	-	1 (< 4.0)	EN 374

Eye protection:

Safety glasses. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe gas/vapour/aerosol. Filter: A P. EN 143.

Environmental exposure controls:

Avoid release to the environment.

Other information:

Avoid contact with skin and eyes. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Apply emollient cream.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Yellow.
Odour	:	characteristic.
Odour threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	>= 250 °C ((Open cup); ISO 2592)
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Not applicable
Vapour pressure	:	< 0.001 hPa (20°C)
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	1.05 g/cm³ (20 °C)
Solubility	:	Water: Partially soluble
Log Pow	:	No data available
Viscosity, kinematic	:	220 mm²/s (40 °C)
Viscosity, dynamic	:	No data available
Explosive properties	:	Not explosive.
Oxidising properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

Other properties	:	No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under normal use.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

diphenyl tolyl phosphate (26444-49-5)	
LD50 oral rat	6400 mg/kg bodyweight

bis(methylphenyl) phenyl phosphate (26446-73-1)	
LD50 oral rat	8400 mg/kg bodyweight

triphenyl phosphate (115-86-6)	
LD50 oral	3723.1 mg/kg

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

KRONES celerol FL 7307 PG	
Viscosity, kinematic	220 mm²/s (40 °C)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity : Not classified (Based on available data, the classification criteria are not met)

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

diphenyl tolyl phosphate (26444-49-5)	
LC50 fish 1	1.3 mg/l (96 h; Oryzias latipes)
ErC50 (algae)	0.55 mg/l (72 h; Desmodus supspicatus)
NOEC chronic crustacea	0.12 mg/l (21 d; Daphnia magna)

bis(methylphenyl) phenyl phosphate (26446-73-1)	
LC50 fish 1	1.3 mg/l (96 h; Oryzias latipes)
ErC50 (algae)	0.27 mg/l (72 h; Desmodus subspicatus)
NOEC chronic crustacea	0.12 mg/l (21 d; Daphnia magna)

triphenyl phosphate (115-86-6)	
LC50 fish 1	0.4 mg/l (96 h; Oncorhynchus mykiss)
EC50 Daphnia 1	0.18 mg/l (96 h; Americamysis bahia)
NOEC chronic fish	0.001 mg/l (90 d; Oncorhynchus mykiss)
NOEC chronic crustacea	0.254 mg/l (21 d; Daphnia magna; (OECD 211 method))

12.2. Persistence and degradability

diphenyl tolyl phosphate (26444-49-5)	
Persistence and degradability	Biodegradable.
Biodegradation	82 % (22 wk; (OECD 301A method))

triphenyl phosphate (115-86-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	83 - 94 % (28 d; (OECD 301D method))

12.3. Bioaccumulative potential

diphenyl tolyl phosphate (26444-49-5)	
Log Pow	4.51
Bioaccumulative potential	Potentially bioaccumulable.

bis(methylphenyl) phenyl phosphate (26446-73-1)	
Log Pow	5.8

triphenyl phosphate (115-86-6)	
Bioconcentration factor (BCF REACH)	144

12.4. Mobility in soil

diphenyl tolyl phosphate (26444-49-5)	
Ecology - soil	Low mobility (soil).

triphenyl phosphate (115-86-6)	
Ecology - soil	Low mobility (soil).

12.5. Results of PBT and vPvB assessment

KRONES celerol FL 7307 PG
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component	
diphenyl tolyl phosphate (26444-49-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
bis(methylphenyl) phenyl phosphate (26446-73-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
triphenyl phosphate (115-86-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Disposal must be done according to official regulations. European waste catalogue. Do not dispose of with domestic waste. Do not discharge into drains or the environment.

Product/Packaging disposal recommendations : Do not re-use empty containers without proper cleaning or reconditioning.

HP Code : HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	KRONES celerol FL 7307 PG - diphenyl tolyl phosphate - bis(methylphenyl) phenyl phosphate

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources : MSDS of the supplier.

Department issuing data specification sheet : KFT Chemieservice GmbH
Im Leuschnerpark. 3 64347 Griesheim
Postfach 1451 64345 Griesheim
Germany

Phone: +49 6155-8981-400 Fax: +49 6155 8981-500
Safety Data Sheet Service: +49 6155 8981-522

Contact person : Dr. Dagmar Hofmann

Full text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Aquatic Chronic 3	H412	Calculation method

KFT SDS EU 00

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product