

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 1-11-2018 Revision date: 11-1-2023 Supersedes version of: 6-1-2023 Version: 3.0

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

1.1. Product identifier

Product form	: Mixture
Trade name	: Labora Grease
Product code	: 07.10.13
Type of product	: Lubricants
Product group	: Trade product

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 Function or use category

: Grease Lubricant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Kroon Oil BV B.V. Dollegoorweg, 15 NL-7602 EC Almelo Netherlands T 0031 (0)546 81 81 65 vib@kroon-oil.nl

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX Cardiff	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

EUH-statements

: EUH208 - Contains Naphthenic acids, zinc salts, Dipentylammonium dipentyldithiocarbamate. May produce an allergic reaction. EUH210 - Safety data sheet available on request.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2.3. Other hazards

Other hazards which do not result in classification : May be dangerously slippery if spilled.

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 Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	CAS-No.: 4259-15-8 EC-No.: 224-235-5 REACH-no: 01-2119493635- 27	1 – 5	Eye Dam. 1, H318 Aquatic Chronic 2, H411
1,2-Dihydro-2,2,4-trimethylquinoline, oligomers	CAS-No.: 26780-96-1 EC-No.: 500-051-3 REACH-no: 01-2119486783- 23	1 – 5	Aquatic Chronic 3, H412
Naphthenic acids, zinc salts	CAS-No.: 12001-85-3 EC-No.: 234-409-2 REACH-no: 01-2120783834- 41	< 1	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Dipentylammonium dipentyldithiocarbamate	CAS-No.: 71902-20-0 EC-No.: 276-172-8 REACH-no: 01-2120793078- 43	< 1	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	CAS-No.: 4259-15-8 EC-No.: 224-235-5 REACH-no: 01-2119493635- 27	(50 ≤C ≤ 100) Eye Dam. 1, H318 (50 ≤C < 100) Eye Irrit. 2, H319	

Comments

: The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation First-aid measures after skin contact	 Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

First-aid measures after eye contact First-aid measures after ingestion	 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. Call a poison center or a doctor if you feel unwell.
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 Unsuitable extinguishing media	Dry powder. Foam. Carbon dioxide.Water. Do not use a heavy water stream.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard Hazardous decomposition products in case of fire	 Combustible liquid. Toxic fumes may be released. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. 	
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.	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: May be dangerously slippery if spilled.		
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.		
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 release to the environment.			
6.3. Methods and material for containment and cleaning up			
Methods for cleaning up Other information	Take up liquid spill into absorbent material.Dispose of materials or solid residues at an authorized site.		

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling	 May be dangerously slippery if spilled. Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including an	ny incompatibilities
Incompatible materials Maximum storage period	 Protect from heat and direct sunlight. Store in a well-ventilated place. Keep cool. Oxidation agents. > 6 months 0 - 40 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Labora Grease	
EU - Indicative Occupational Exposure Limit (IOEL)
Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended	5 mg/m³ - ACGIH TLV (inhalable fraction).

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

Eye protection				
Type Field of application Characteristics Standard				
Safety glasses	Droplet	clear	EN 166	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥0.35		EN ISO 374
Short term exposure	Nitrile rubber (NBR)	4 (> 120 minutes)	0.12		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

9.1. Information on basic physical and ch	emical properties
Physical state Colour Appearance Odour Odour threshold Melting point Freezing point Boiling point Flammability Explosive limits Lower explosion limit Upper explosion limit Flash point Auto-ignition temperature Decomposition temperature pH	 Liquid brown. Paste. characteristic. Not available > 260 °C Not available > 250 °C Not applicable Not available Not determined Not determined > 200 °C Not determined Not determined Not relevant Not determined
Viscosity, kinematic Solubility Partition coefficient n-octanol/water (Log Kow) Partition coefficient n-octanol/water (Log Pow) Vapour pressure Vapour pressure at 50°C Density Relative density Relative vapour density at 20°C Particle characteristics	 Not determined Water: Insoluble / Slightly miscible Not available Not available Not determined Not available ≈ 0,93 g/cm³ @25°C Not available Not available Not available Not available Not available Not available

9.2.1. Information with regard to physical hazard classes

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

9.2.2. Other safety characteristics

SECTION 10: Stability and reactivity

VOC content

: < 3 %

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. Reacts violently with (strong) oxidizers.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
Acids. Oxidation agents.
10.6. Hazardous decomposition products
Jnder normal conditions of storage and use, hazardous decomposition products should not be produced.
SECTION 11: Toxicological information

44.4 Information on borond stances a	a defined in Regulation (EC) No 4070/2009
11.1. Information on nazard classes as	s defined in Regulation (EC) No 1272/2008
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified
, ,	
zinc bis[0,0-bis(2-ethylhexyl)] bis(dit	niopnosphate) (4259-15-8)
LD50 oral rat	3100 mg/kg (OECD 401 method)
LD50 dermal rabbit	> 5000 mg/kg (OECD 402 method)
1,2-Dihydro-2,2,4-trimethylquinoline,	oligomers (26780-96-1)
LD50 oral rat	3190 mg/kg bodyweight Animal: rat, 95% CL: 2730 - 3720
LD50 dermal rabbit	> 5100 mg/kg bodyweight Animal: rabbit, Remarks on results: other:
Naphthenic acids, zinc salts (12001-8	5-3)
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: other:, Guideline: other:, Guideline: other:, Remarks on results: not determinable due to absence of adverse toxic effects
Dipentylammonium dipentyldithiocar	bamate (71902-20-0)
LD50 oral rat	2000 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
	pH: Not determined
Serious eye damage/irritation	: Not classified
Peopiratory or akin consistention	pH: Not determined : Not classified
Respiratory or skin sensitisation Germ cell mutagenicity	: Not classified : Not classified
Carcinogenicity	: Not classified
Carcinogenicity	. NUL URSSHIEU

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
zinc bis[0,0-bis(2-ethylhexyl)] bis(dithio	phosphate) (4259-15-8)
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28- Day Oral Toxicity Study in Rodents)
Aspiration hazard	: Not classified
Labora Grease	
Viscosity, kinematic	Not determined
11.2. Information on other hazards	

No additional information available

SECTION 12: Ecological information		
12.1. Toxicity		
Hazardous to the aquatic environment, short–term : (acute)	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified Not classified	
Labora Grease		
LC50 - Fish [1]	> 100 mg/l (Brachydanio rerio (zebra-fish), 96 hours)	
EC50 - Crustacea [1]	> 100 mg/l (Daphnia, 48 hours)	
EC50 72h - Algae [1]	> 100 mg/l (Desmodesmus subspicatus, 72 hours)	
NOEC chronic algae	> 100 mg/l (Desmodesmus subspicatus, 72 hours)	
zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophos	phate) (4259-15-8)	
LC50 - Fish [1]	> 1 (1 – 2) mg/l (Oncorhynchus mykiss, 96h) [OECD 203]	
LC50 - Fish [2]	46 mg/l Test organisms (species):	
EC50 - Crustacea [1]	> 1 (1 – 10) mg/l (Daphnia magna, 48h) [OECD 202]	
ErC50 algae	> 240 mg/l (Desmodesmus subspicatus, 72h)	
1,2-Dihydro-2,2,4-trimethylquinoline, oligomers (26780-96-1)		
EC50 - Crustacea [1]	56 mg/l	
NOEC chronic algae	≥ 100 mg/l	
Dipentylammonium dipentyldithiocarbamate (71902-20-0)		
EC50 - Crustacea [1]	590 µg/l	
EC50 72h - Algae [1]	9,3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 72h - Algae [2]	16 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
ErC50 algae	16 mg/l	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

12.2. Persistence and degradability		
Labora Grease		
Persistence and degradability	No data available.	
zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophos	phate) (4259-15-8)	
Biodegradation	5 % (closed bottle 28d.)	
12.3. Bioaccumulative potential		
Labora Grease		
Partition coefficient n-octanol/water (Log Pow)	Not available	
Bioaccumulative potential	No data available.	
zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophos	phate) (4259-15-8)	
Partition coefficient n-octanol/water (Log Pow)	3,59	
Partition coefficient n-octanol/water (Log Kow)	3,6 (octanol/water 0.1d)	
1,2-Dihydro-2,2,4-trimethylquinoline, oligome	rs (26780-96-1)	
Partition coefficient n-octanol/water (Log Pow)	5,8 (1,2 – 7,7)	
Bioaccumulative potential	bioaccumulative.	
Dipentylammonium dipentyldithiocarbamate	(71902-20-0)	
Partition coefficient n-octanol/water (Log Pow)	2,4	
12.4. Mobility in soil		
Labora Grease		
Ecology - soil	No data available.	
12.5. Results of PBT and vPvB assessment		
Labora Grease		
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. Endocrine disrupting properties		
No additional information available		
12.7. Other adverse effects		
Other adverse effects :	No data available.	
SECTION 13: Disposal considerations		
12.1. Waste treatment methods		

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Do not discharge into drains or the environment.
European List of Waste (LoW) code	: 12 01 12* - spent waxes and fats

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 14: Transpo	rt information				
n accordance with ADR / IMI	n accordance with ADR / IMDG / IATA / ADN / RID				
ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number or ID n	umber	·	·		
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shippin	g name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard o	class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.4. Packing group					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
No supplementary information available					

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport Not regulated

Inland waterway transport Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

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

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content

: < 3 %

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic 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

Indication of changes			
Section	Changed item	Change	Comments
	Type of product	Added	
2.1	Adverse physicochemical, human health and environmental effects	Added	
2.3	Other hazards not contributing to the classification	Added	
3	Composition/information on ingredients	Modified	
5.1	Unsuitable extinguishing media	Modified	
5.2	Hazardous decomposition products in case of fire	Modified	
5.2	Fire hazard	Added	
7.2	Storage temperature	Modified	
7.2	Maximum storage period	Added	
7.2	Storage conditions	Modified	
8.1	Generic OEL data	Added	
9.1	Upper explosive limit (UEL)	Added	
9.1	Lower explosive limit (LEL)	Added	
9.1	Viscosity, kinematic	Added	
9.1	Vapour pressure	Added	
9.1	Relative vapour density at 20°C	Added	
9.1	рН	Added	
9.1	Log Pow	Added	
9.1	Decomposition temperature	Added	
9.1	Auto-ignition temperature	Added	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Indication of changes			
Section	Changed item	Change	Comments
9.1	Density	Modified	
9.2	VOC content	Added	
10.3	Possibility of hazardous reactions	Modified	
12.2	Persistence and degradability	Added	
12.3	Bioaccumulative potential	Added	
12.3	Log Pow	Added	
12.4	Ecology - soil	Added	
12.7	Other adverse effects	Added	
15.1	VOC content	Added	
15.2	Chemical safety assessment	Modified	

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	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	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	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:	
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
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 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
EUH208	Contains Naphthenic acids, zinc salts, Dipentylammonium dipentyldithiocarbamate. May produce an allergic reaction.
EUH210	Safety data sheet available on request.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Sens. 1	Skin sensitisation, Category 1

Safety Data Sheet (SDS), EU

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.