

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 3-7-2018 Revision date: 21-6-2024 Supersedes version of: 30-11-2023 Version: 3.2

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

1.1. Product identifier

Product form : Mixture

Trade name : Kroon-Oil Drauliquid-LV Super DOT 4

UFI : WEJY-S8NA-6007-GC34

Product code : 09.40.04

Type of product : Hydraulic Fluids

Product group : Trade product

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use, Professional use, Consumer use

Use of the substance/mixture : Brake fluid

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Kroon-Oil 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/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+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	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]

Reproductive toxicity, Category 2 H361

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

Adverse physicochemical, human health and environmental effects

Suspected of damaging fertility or the unborn child.

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS08

Signal word (CLP) : Warning

Contains : Tris[2-[2-(2-methoxyethoxy]ethoxy]ethoxy]ethoy] orthoborate

Hazard statements (CLP) : H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing, eye protection. P308+P313 - IF exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

EUH-statements : EUH208 - Contains Dihydro-3-(tetrapropenyl)furan-2,5-dione. May produce an allergic

reaction.

2.3. Other hazards

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

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	2-[2-(2-butoxyethoxy)ethoxy]ethanol (143-22-6)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	2-[2-(2-butoxyethoxy)ethoxy]ethanol (143-22-6)

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 substance(s) are 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]
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	CAS-No.: 30989-05-0 EC-No.: 250-418-4 REACH-no: 01-2119462824- 33	< 80	Repr. 2, H361d
2-[2-(2-butoxyethoxy)ethoxy]ethanol substance with a Community workplace exposure limit	CAS-No.: 143-22-6 EC-No.: 205-592-6 EC Index-No.: 603-183-00-0 REACH-no: 01-2119475107- 38	< 20	Eye Dam. 1, H318

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-(2-methoxyethoxy)ethanol	CAS-No.: 111-77-3 EC-No.: 203-906-6 EC Index-No.: 603-107-00-6 REACH-no: 01-2119475100- 52	< 5	Repr. 1B, H360D
Dihydro-3-(tetrapropenyl)furan-2,5-dione	CAS-No.: 26544-38-7 EC-No.: 247-781-6 REACH-no: 01-2119979080- 37	< 0,1	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 4, H413

Specific concentration limits:	ecific concentration limits:		
Name	Product identifier	Specific concentration limits (%)	
2-[2-(2-butoxyethoxy)ethoxy]ethanol	CAS-No.: 143-22-6 EC-No.: 205-592-6 EC Index-No.: 603-183-00-0 REACH-no: 01-2119475107-	(20 ≤ C < 30) Eye Irrit. 2, H319 (30 ≤ C < 100) Eye Dam. 1, H318	
2-(2-methoxyethoxy)ethanol	CAS-No.: 111-77-3 EC-No.: 203-906-6 EC Index-No.: 603-107-00-6 REACH-no: 01-2119475100-	(3 ≤ C ≤ 100) Repr. 1B, H360D	
Dihydro-3-(tetrapropenyl)furan-2,5-dione	CAS-No.: 26544-38-7 EC-No.: 247-781-6 REACH-no: 01-2119979080- 37	(0,1 ≤ C < 100) Skin Sens. 1A, H317	

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 general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after 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.

First-aid measures after ingestion : Rinse mouth out with water. If swallowed, rinse mouth with water (only if the person is

conscious). Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this

material is expected to be an inhalation hazard.

Symptoms/effects after skin contact : None under normal conditions.

Symptoms/effects after eye contact : Eye irritation.
Symptoms/effects after ingestion : None under normal conditions.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard. Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper

protective equipment, including respiratory protection.

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 : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

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".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

Other information : 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 : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Obtain special

instructions before use. Do not handle until all safety precautions have been read and

understood. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat. Storage conditions : Keep container tightly closed. Store locked up.

Packaging materials : Store always product in container of same material as original container.

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

2-[2-(2-butoxyethoxy)ethoxy]ethanol (143-22-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	50 mg/m³
	9 ppm

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:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

ye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166

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8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Hand protection					
Type Material Permeation Thickness		Thickness (mm)	Penetration	Standard	
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥0.35		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : dark orange. Appearance : clear. Odour : characteristic. Odour threshold : Not available Melting point : ≤ -50 °C Freezing point Not available Boiling point : > 260 °C Flammability : Not applicable Lower explosion limit : Not available Upper explosion limit : Not available : > 110 °C Flash point Auto-ignition temperature : Not available Decomposition temperature : Not available : 7 – 10,5

Viscosity, kinematic : 15 mm²/s @20°C

Solubility : Water: completely miscible Partition coefficient n-octanol/water (Log Kow) : Not available

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : < 0,1 mPa Vapour pressure at 50°C : Not available

Density : 1,02 – 1,09 kg/l @ 20°C

Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Other properties : Material is hygroscopic

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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 recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

2-(2-methoxyethoxy)ethanol (111-77-3)		
LD50 dermal rabbit	9404 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 4 (Acute Dermal Toxicity), 95% CL: 6696 - 13212	
2-[2-(2-butoxyethoxy]ethoxy]ethanol (143-22-6)		
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)	
LD50 oral	5170 mg/kg bodyweight	

LD50 oral	5170 mg/kg bodyweight
LD50 dermal rabbit	3540 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:, 95% CL: 1050 - 11800
LD50 dermal	3540 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 2400 mg/l

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ı	T : 10 10 (0) (1) (1) (1) (1) (2)	-01
ı	Tris[2-[2-(2-methoxyethoxy)ethoxylethyll orthoborate (30989-05	-0)

······[_ [_ (
LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight

Skin corrosion/irritation : Not classified pH: 7 - 10,5

ı	2-[2-(2-buto	kyethoxy)etho	oxy]ethanol ((143-22-6)
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pН		7 Temp.: 20 °C Concentration:]70 vol%,80 vol%] Remarks on result: 'other:'
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: Not classified Serious eye damage/irritation pH: 7 - 10,5

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2-[2-(2-butoxyethoxy)ethoxy]ethanol (143-22-6)				
рН	7 Temp.: 20 °C Concentration:]70 vol%,80 vol%] Remarks on result: 'other:'			
Respiratory or skin sensitisation	: Not classified			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: Not classified			
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.			
STOT-single exposure	: Not classified			
STOT-repeated exposure	: Not classified			
2-(2-methoxyethoxy)ethanol (111-77-3)				
LOAEL (oral, rat, 90 days)	1800 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)			
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Remarks on results: other:			
NOAEC (inhalation, rat, vapour, 90 days)	> 1,06 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)			
2-[2-(2-butoxyethoxy)ethoxy]ethanol (143-22	2-6)			
LOAEL (oral, rat, 90 days)	1200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)			
NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)			
NOAEL (dermal, rat/rabbit, 90 days)	4000 mg/kg bodyweight Animal: rat, Guideline: other:			
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] or	thoborate (30989-05-0)			
NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight/day				
Aspiration hazard	: Not classified			
Kroon-Oil Drauliquid-LV Super DOT 4				
Viscosity, kinematic	15 mm²/s @20°C			
2-[2-(2-butoxyethoxy)ethoxy]ethanol (143-22	2-6)			
Viscosity, kinematic	9,2 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)' Remarks on result: 'other:'			
Dihydro-3-(tetrapropenyl)furan-2,5-dione (26	5544-38-7)			
Viscosity, kinematic	0,428 mm²/s			
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] or	thoborate (30989-05-0)			
Viscosity, kinematic	16,2 mm²/s @20°C			

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

acute)

: Not classified

Hazardous to the aquatic environment, long-term $% \left(\mathbf{r}\right) =\mathbf{r}^{\prime }$

: Not classified

(chronic)

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2-(2-methoxyethoxy)ethanol (111-77-3)				
LC50 - Fish [1]	5741 mg/l Test organisms (species): Pimephales promelas			
EC50 - Crustacea [1]	1192 mg/l Test organisms (species): Daphnia magna			
EC50 96h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
2-[2-(2-butoxyethoxy)ethoxy]ethanol (143	3-22-6)			
LC50 - Fish [1]	2200 – 4600 mg/l Test organisms (species): Leuciscus idus			
LC50 - Fish [2]	2400 mg/l Test organisms (species): Pimephales promelas			
EC50 - Crustacea [1]	> 500 mg/l (Daphnia magna, 48h)			
EC50 - Other aquatic organisms [1]	> 5000 mg/l (Microorganisms, 16 h)			
EC50 - Other aquatic organisms [2]	> 500 mg/l			
EC50 72h - Algae [1] 1589 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previou Raphidocelis subcapitata, Selenastrum capricornutum)				
EC50 72h - Algae [2]	3211 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
ErC50 other aquatic plants 2490 mg/l (Selenastrum capricornutum, 72h)				
Dihydro-3-(tetrapropenyl)furan-2,5-dione	(26544-38-7)			
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)			
EC50 96h - Algae [1]	110 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]	orthoborate (30989-05-0)			
LC50 - Fish [1]	222,2 mg/l			
EC50 - Crustacea [1] 211,2 mg/l				
EC50 72h - Algae [1]	224,2 mg/l			
NOEC chronic algae 224,2 mg/l				

Kroon-Oil Drauliquid-LV Super DOT 4				
Persistence and degradability	Rapidly degradable			
Biodegradation	> 70 % (OECD 308 method)			
2-(2-methoxyethoxy)ethanol (111-77-3)				
Persistence and degradability Rapidly degradable				
2-[2-(2-butoxyethoxy)ethoxy]ethanol (143-22-6	5)			
Persistence and degradability	Rapidly degradable			
Biodegradation 85 % [28d, OECD 301 D]				
Dihydro-3-(tetrapropenyl)furan-2,5-dione (265	44-38-7)			
Persistence and degradability	Rapidly degradable			
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orth	oborate (30989-05-0)			
Persistence and degradability Not rapidly degradable				

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12.3. Bioaccumulative potential

2-[2-(2-butoxyethoxy)ethoxy]ethanol (143-22-6)

Partition coefficient n-octanol/water (Log Pow) 0,51

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0)

Partition coefficient n-octanol/water (Log Pow) 1 @20°C

12.4. Mobility in soil

2-[2-(2-butoxyethoxy)ethoxy]ethanol (143-22-6)

1 ()	,
Surface tension	0,0612 N/m
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	≈ 10

12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	2-[2-(2-butoxyethoxy)ethoxy]ethanol (143-22-6)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	2-[2-(2-butoxyethoxy)ethoxy]ethanol (143-22-6)

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation

Waste treatment methods

Sewage disposal recommendations

Product/Packaging disposal recommendations Additional information

European List of Waste (LoW, EC 2000/532)

HP Code

- : Disposal must be done according to official regulations.
- Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Disposal must be done according to official regulations.
- : Disposal must be done according to official regulations.
- : Do not re-use empty containers.
- : 16 01 13* brake fluids
- : HP4 "Irritant skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID		
14.1. UN number or ID n	14.1. UN number or ID number					
Not regulated for transport	Not regulated for transport					
14.2. UN proper shipping name						
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated		

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ADR	IMDG	IATA	ADN	RID		
14.3. Transport hazard class(es)						
Not regulated	Not regulated Not regulated Not regulated Not regulated					
14.4. Packing group	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)

EU restriction list (REA	EU restriction list (REACH Annex XVII)			
Reference code	Applicable on	Entry title or description		
3(b)	Kroon-Oil Drauliquid-LV Super DOT 4 ; 2-(2- methoxyethoxy)ethanol ; 2-[2-(2- butoxyethoxy)ethoxy]etha nol ; Dihydro-3- (tetrapropenyl)furan-2,5- dione ; Tris[2-[2-(2- methoxyethoxy)ethoxy]eth yl] orthoborate	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 classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10		
3(c)	Dihydro-3- (tetrapropenyl)furan-2,5- dione	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		
54.	2-(2- methoxyethoxy)ethanol	2-(2-methoxyethoxy)ethanol (DEGME)		

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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)

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)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Biocide Regulation (528/2012)

Child-resistant fastening : Not applicable Tactile warning : Applicable

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	
	Supersedes	Modified		
	Revision date	Modified		
	Type of product	Added		
1.2	Function or use category	Removed		
4.2	Symptoms/effects after ingestion	Added		
4.2	Symptoms/effects after inhalation	Added		
4.2	Symptoms/effects after skin contact	Added		
5.1	Unsuitable extinguishing media	Added		
5.2	Fire hazard	Added		
5.2	Explosion hazard	Added		
5.3	Firefighting instructions	Added		
6.1	Emergency procedures	Added		
6.1	Protective equipment	Added		

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Safety Data Sheet

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

Indication of ch	Indication of changes				
Section	Changed item	Change	Comments		
6.1	General measures	Added			
6.3	For containment	Added			
7.1	Additional hazards when processed	Added			
7.2	Technical measures	Added			
7.2	Packaging materials	Added			
7.2	Storage conditions	Modified			
8.2	Personal protective equipment	Added			
9.1	Flash point	Added			
9.1	Melting point	Modified			
9.1	Boiling point	Modified			
13.1	Waste disposal recommendations	Added			
13.1	Sewage disposal recommendations	Added			
13.1	Additional information	Added			
13.1	Regional waste regulation	Added			

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	
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	

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EN (English)

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Abbreviations and acronyms:		
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
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:		
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4	
EUH208	Contains Dihydro-3-(tetrapropenyl)furan-2,5-dione. May produce an allergic reaction.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H360D	May damage the unborn child.	
H361	Suspected of damaging fertility or the unborn child.	
H361d	Suspected of damaging the unborn child.	
H413	May cause long lasting harmful effects to aquatic life.	
Repr. 1B	Reproductive toxicity, Category 1B	
Repr. 2	Reproductive toxicity, Category 2	
Skin Sens. 1A	Skin sensitisation, category 1A	

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.