

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 9-5-2018 Revision date: 30-10-2024 Supersedes version of: 11-6-2024 Version: 1.4

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

1.1. Product identifier

Product form	: Mix	ture
Trade name	: Per	us AF 22
Product code	: 08.1	0.29
Type of product	: Lub	ricants
Product group	: Trac	de product

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

1.2.1. Relevant identified uses

Main use category Use of the substance/mixture : Industrial use,Professional use,Consumer use: Hydraulic oil

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]

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

: EUH210 - Safety data sheet available on request.

2.3. Other hazards

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

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Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

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

Comments

: Highly refined mineral oils and additives.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated light naphthenic (Note L)	CAS-No.: 64742-53-6 EC-No.: 265-156-6 EC Index-No.: 649-466-00-2 REACH-no: 01-2119480375- 34	5 – 10	Asp. Tox. 1, H304

Comments

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

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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 you feel unwell, seek medical advice.
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.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	cts, 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	: None under normal conditions.
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 Unsuitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. : Do not use a heavy water stream.				
5.2. Special hazards arising from the substance or mixture					
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 No fire hazard. No direct explosion hazard. Toxic fumes may be released. 				
5.3. Advice for firefighters					
Firefighting instructions Protection during firefighting	 Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. 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 equipme	ent 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.			
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.			
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	e		
7.1. Precautions for safe handling			
Additional hazards when processed Precautions for safe handling Hygiene measures	 Not expected to present a significant hazard under anticipated conditions of normal use. Provide good ventilation in process area to prevent formation of vapour. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 		
7.2. Conditions for safe storage, including any incompatibilities			

Technical measures

: Keep in a cool, well-ventilated place away from heat.

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Storage conditions	: Keep container closed when not in use. Keep in a cool, well-ventilated place away from heat.
Storage temperature Packaging materials	 : 0 – 40 °C : 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

Perlus AF 22	
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/m ³ - 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:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

Eye protection			
Type Field of application Characteristic		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					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥0.35		EN ISO 374

Other skin protection

Materials for protective clothing:

Wear suitable protective clothing

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.

SECTION 9: Physical and chemical properties				
9.1. Information on basic physical and che	emical properties			
9.1. Information on basic physical and che Physical state Colour Odour Odour threshold Melting point Freezing point Boiling point Flammability Explosive properties Lower explosion limit Upper explosion limit Flash point Auto-ignition temperature	 Emical properties Liquid light yellow. characteristic. Not available Not applicable -36 °C - ASTM D5950 (pour point) Not available Not applicable Presents no particular fire or explosion hazard. Not available 			
Decomposition temperature pH Viscosity, kinematic Solubility Partition coefficient n-octanol/water (Log Kow) Vapour pressure Vapour pressure at 50°C Density Relative density Relative vapour density at 20°C Particle characteristics	 Not available Not available Not available 22 mm²/s (40 °C) - ASTM D7042 Water: Insoluble / Slightly miscible Not available Not available Not available 0,851 kg/l (15 °C) - ASTM D4052 Not available Not available Not available Not available Not available 			

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

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9.2.2. Other safety characteristics

VOC content

: 0 %

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. Reacts violently with (strong) oxidizers.			
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			
No decomposition if stored normally.			
SECTION 11: Toxicological information			

11.1. Information on hazard classes	as defined	d in Regulation (EC) No 1272/2008
Acute toxicity (oral)	-	Not classified
Acute toxicity (dermal) Acute toxicity (inhalation)	-	Not classified Not classified
Distillates (petroleum), hydrotreated	light nap	hthenic (64742-53-6)
LD50 oral rat		> 5000 mg/kg bodyweight
LD50 dermal rabbit		> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)		> 5,53 mg/l/4h
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified
Perlus AF 22		
Viscosity, kinematic		22 mm²/s (40 °C) - ASTM D7042
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)		
Viscosity, kinematic		9 mm²/s
11.2. Information on other hazards		

No additional information available

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SECTION 42: Ecological information	
SECTION 12: Ecological information	
12.1. Toxicity	
	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified
Hazardous to the aquatic environment, long-term : (chronic)	Not classified
Distillates (petroleum), hydrotreated light nap	hthenic (64742-53-6)
LC50 - Fish [1]	> 100 mg/l (96 h)
EC50 - Crustacea [1]	> 10 g/l
EC50 72h - Algae [1]	> 100 mg/l
NOEC (acute)	≥ 100 (72h)
12.2. Persistence and degradability	
Perlus AF 22	
Persistence and degradability	Not rapidly degradable
Distillates (petroleum), hydrotreated light nap	hthenic (64742-53-6)
Persistence and degradability	Not readily biodegradable, Inherently biodegradable.
12.3. Bioaccumulative potential	
Distillates (petroleum), hydrotreated light nap	hthenic (64742-53-6)
Bioaccumulative potential	Bioaccumulative potential.
12.4. Mobility in soil	
Distillates (petroleum), hydrotreated light nap	hthenic (64742-53-6)
Ecology - soil	Insoluble in water.
12.5. Results of PBT and vPvB assessment	
Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
No additional information available	

SECTION 13: Disposal considerat	tions
13.1. Waste treatment methods	
De view el constructor provide tiem	

Regional waste regulation

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Waste treatment methods	: Do not allow into drains or water courses. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations Product/Packaging disposal recommendations Additional information European List of Waste (LoW, EC 2000/532)	 Disposal must be done according to official regulations. Dispose in a safe manner in accordance with local/national regulations. Do not re-use empty containers. 13 01 10* - mineral based non-chlorinated hydraulic oils

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
I4.1. UN number or ID nu	umber	II		
Not regulated for transport				
14.2. UN proper shipping	g name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard c	lass(es)	11		
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 haza	ards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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

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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 (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Distillates (petroleum), hydrotreated light naphthenic	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

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)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

VOC content

: 0 %

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

For the following substances of this mixture a chemical safety assessment has been carried out:

Distillates (petroleum), hydrotreated light naphthenic

SECTION 16: Other information

Indication of changes				
Section	Changed item	Change	Comments	
	Revision date	Modified		
	Supersedes	Modified		
2.2	EUH-statements	Added		

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Indication of changes				
Section	Changed item	Change	Comments	
3	Composition/information on ingredients	Modified		
15.1	REACH Annex XVII	Added		

ADNEuropean Agreement concerning the International Carriage of Dangerous Goods by Inland WaterwaysADREuropean Agreement concerning the International Carriage of Dangerous Goods by RoadATEAcute Toxicity EstimateBCFBioconcentration factorBLVBiological limit ValueBODBiochemical oxygen demand (GOD)CODChemical oxygen demand (GOD)DNELDerived Minimal Effect levelDNELDerived Minimal Effect levelDNELDerived Minimal Effect levelEC-No.European Community numberECS0Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Maritime Dangerous GoodsLCS0Median iethal concentrationIDGInternational Maritime Dangerous GoodsLCS0Median iethal concentrationNAGENo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Effect LevelNOECOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Biaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTFSewage treatment plantThODTheeratela Abstract Service number<	Abbreviations and acronyms:		
ATEAcute Toxicity EstimateBCFBioconcentration factorBLVBiological limit valueBODBiochemical oxygen demand (BOD)CODChemical oxygen demand (COD)DMELDerived Minmal Effect levelDNELDerived Minmal Effect levelEC-No.European Community numberECS0Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Aritime Dangerous GoodsLCS0Median effective concentrationIDDGInternational Maritime Dangerous GoodsLCS0Median lethal concentrationIDDGInternational Adverse Effect LevelNOAELLowest Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Effect ConcentrationNOAELOccupational Exposure LimitPBTPresistent Biaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTFSawage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service number	ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
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 ECS0 Median effective concentration EN European Standard IARC International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Air Transport Association IDDG International Air Transport Association IDDS Median lethal concentration LDS0 Median lethal concentration LDS1 Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEC No-Observed Adverse Effect Concentration NOEC No-Observed Effect Concentration NOEC No-Observed Adverse Effect Concentration NOEC No-Observed Effect Concentration OEL Occupational Exposure Limit PBT Presistent Bioa	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
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TLM Median Tolerance Limit VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number	STP	Sewage treatment plant	
VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number	ThOD	Theoretical oxygen demand (ThOD)	
CAS-No. Chemical Abstract Service number	TLM	Median Tolerance Limit	
	VOC	Volatile Organic Compounds	
N.O.S. Not Otherwise Specified	CAS-No.	Chemical Abstract Service number	
	N.O.S.	Not Otherwise Specified	
vPvB Very Persistent and Very Bioaccumulative	vPvB	Very Persistent and Very Bioaccumulative	

Safety Data Sheet

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

Abbreviations and acronyms:	
ED	Endocrine disrupting properties
Full text of H- and EUH-statements:	
Asp. Tox. 1	Aspiration hazard, Category 1
EUH210	Safety data sheet available on request.
H304	May be fatal if swallowed and enters airways.

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.