SAFETY DATA SHEET



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

RUBIA WORKS 4000 FE 10W-30

SDS #: 088735

Date of previous revision : 2021/06/17

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

1.1 Product identifier

Product name : RUBIA WORKS 4000 FE 10W-30

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

Identified uses

Engine oil

1.3 Details of the supplier of the safety data sheet

TotalEnergies Lubrifiants 562 Avenue du Parc de L'ile 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00

Fax: +33 (0)1 41 35 84 71 m.msds-lubs@totalenergies.com

TotalEnergies Marketing Sweden AB

Box 50326 212 13 Malmö Sverige

tlf. (+46) 040-38 36 50 Fax: (+46) 040-29 28 20

m.nordic-reach@totalenergies.com

Contact

H.S.E

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : Poison Information Center: 112 (emergency), 010-456 6700 (in less urgent cases)

Supplier

Telephone number: Emergency phone: +44 1235 239670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 11 for more detailed information on health effects and symptoms.

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2.2 Label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Supplemental label

elements

: Safety data sheet available on request.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %.

Other hazards which do not result in classification

: Hazard of slipping on spilled product.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/substance	Identifiers	% (w/w)	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
mineral oil	-	≤10	Asp. Tox. 1, H304	-	[1]
Distillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7 Index: 649-467-00-8	≤3	Asp. Tox. 1, H304	-	[1] [2]
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso- Pr) esters, zinc salts	REACH #: 01-2119493626-26 EC: 283-392-8 CAS: 84605-29-8	≤3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 6.25% Eye Dam. 1, H318: C ≥ 12.5% Eye Irrit. 2, H319: 10% ≤ C < 12.5%	[1]
Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec- alkyl derivs. para-, calcium salts	REACH #: 01-2119521205-53 EC: 947-519-7	≤1	Skin Sens. 1B, H317	Skin Sens. 1B, H317: C ≥ 10%	[1]
Benzene, polypropene derivs., sulfonated, calcium salts	CAS: 75975-85-8	≤0.3	Skin Sens. 1B, H317	Skin Sens. 1B, H317: C ≥ 10%	[1]
Phenol, dodecyl-, branched	REACH #: 01-2119513207-49 EC: 310-154-3	≤0.1	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F	M [Acute] = 10 M [Chronic] = 10	[1] [3]

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CAS: 121158-58-5	Aquatic Acute 1, H400	
	Aquatic Chronic 1,	
	H410	
	See Section 16 for	
	the full text of the H	
	statements declared	
	above.	

Additional information

: Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be

kept under medical surveillance for 48 hours.

Skin contact: Wash skin thoroughly with soap and water or use recognized skin cleanser.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : **W**ash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation dryness cracking

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

: earbon monoxide carbon dioxide Ammonia.
Silicon Dioxide hydrogen chloride hydrogen fluoride fluorophosgen nitrogen oxides phosphorus oxides Sodium oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

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Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/substance	Exposure limit values
vistillates (petroleum), hydrotreated heavy	Work environment authority Regulation 2018:1 (Sweden,
paraffinic	9/2021). [oil mist, incl. oil fumes]
	TWA: 1 mg/m³ 8 hours. Form: mist and fume
	STEL: 3 mg/m³ 15 minutes. Form: mist and fume

Reportable hazardous constituent(s) contained in UVCB and/or multi-constituent substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

No exposure limit value known.

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Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Advisory OEL

: Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined)

DNELs/DMELs

Product/substance	Туре	Exposure	Value	Population	Effects
pistillates (petroleum), hydrotreated	DNEL	Long term Oral	0.74 mg/	General	Systemic
heavy paraffinic			kg bw/day	population	
	DNEL	Long term Dermal	0.97 mg/	Workers	Systemic
	DNEL	Long term	kg bw/day 1.19 mg/m³	General	Local
	DINCL	Inhalation	1.19 1119/111	population	Local
	DNEL	Long term	2.73 mg/m ³	Workers	Systemic
		Inhalation	· ·		
	DNEL	Long term Inhalation	5.58 mg/m ³	Workers	Local
Phosphorodithioic acid, mixed O,O-	DNEL	Long term Oral	0.24 mg/	General	Systemic
bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts			kg bw/day	population	
,	DNEL	Long term	2.11 mg/m ³	General	Systemic
	DNEL	Inhalation Long term Dermal	6.1 mg/kg	population General	Systemic
	DINEL	Long term Dermai	bw/day	population	Systemic
	DNEL	Long term	8.31 mg/m ³	Workers	Systemic
		Inhalation	o o		
	DNEL	Long term Dermal	12.1 mg/	Workers	Systemic
Denetics and vote of	DNEL	l am m tama	kg bw/day	Workers	Cyctomic
Reaction products of benzenesulfonic acid, mono-C20-24	DINEL	Long term Inhalation	17.63 mg/ m³	vvoikeis	Systemic
(even)-sec-alkyl derivs. para-, calcium salts		middidii			
outer suite	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	1.05 mg/ cm ²	Workers	Local
	DNEL	Long term	4.35 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	12.5 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 0.526 mg/	population General	Local
	DIVLE	Long term berman	cm ²	population	Local
	DNEL	Long term Oral	2.5 mg/kg	General	Systemic
			bw/day	population	
Phenol, dodecyl-, branched	DNEL	Long term Oral	0.075 mg/	General	Systemic
	DNEL	Long torm Dormal	kg bw/day 0.075 mg/	population General	Systemis
	DINEL	Long term Dermal	kg bw/day	population	Systemic
	DNEL	Long term Dermal	0.25 mg/	Workers	Systemic

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1	1			
		kg bw/day		
DNEL	Long term	0.79 mg/m ³		Systemic
	Inhalation		population	
DNEL	Short term Oral	1.26 mg/	General	Systemic
		kg bw/day	population	
DNEL	Short term	13.26 mg/	General	Systemic
	Inhalation	m³	population	•
DNEL	Short term	44.18 mg/	Workers	Systemic
	Inhalation	m³		•
DNEL	Short term Dermal	50 mg/kg	General	Systemic
		bw/day	population	,
DNEL	Short term Dermal	166 mg/kg	Workers	Systemic
		bw/day		,
DNEL	Long term	1.762 mg/	Workers	Systemic
51122	Inhalation	m³		-,
	I I I I I I I I I I I I I I I I I I I			

PNECs

Product/ingredient name	Compartment Detail	Name	Method Detail
Distillates (petroleum), hydrotreated heavy paraffinic	Secondary Poisoning	9.33 mg/kg	-
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	Fresh water	0.004 mg/l	-
	Marine water	0.0046 mg/l	-
	Soil	0.0548 mg/kg dwt	-
	Sewage Treatment Plant	100 mg/l	-
Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts	Fresh water	1 mg/l	-
	Marine water	1 mg/l	-
	Fresh water sediment	723500000 mg/ kg dwt	-
	Marine water sediment	723500000 mg/ kg dwt	-
	Soil	868700000 mg/ kg dwt	-
	Sewage Treatment Plant	100 mg/l	-
Phenol, dodecyl-, branched	Fresh water	0.000074 mg/l	-
	Marine water	0.0000074 mg/l	-
		0.226 mg/kg dwt	-
		0.0226 mg/kg dwt	-
	Soil	0.118 mg/kg dwt	-
	Sewage Treatment Plant	100 mg/l	-

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.EN 166

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Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Hydrocarbon-proof gloves

nitrile rubber Fluorinated rubber

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

In case of prolonged contact with the product, it is recommended to wear gloves complying with ISO 21420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Sased on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [limpid]

Color : Amber.

Odor : Characteristic.
Odor threshold : Not available.

pH : Not applicable. Product is non-soluble (in water).

: rechnically not possible to measure

Melting point/freezing point

Initial boiling point and : ▶300°C [EN ISO 3405]

boiling range

Flash point : Open cup: 228°C [ISO 2592]

Evaporation rate : Not available.

Flammability : Not applicable.

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Lower and upper explosion

limit

: Lower: 0.9% Upper: 7%

√0.013 kPa [room temperature] [ASTM D 5191] Vapor pressure

Not applicable. [50°C]

Vapor density : >2 [Air = 1]

: 0.871 [ISO 12185] Relative density

: 0.871 g/cm³ [15°C] [ISO 12185] **Density**

Solubility(ies)

Media Result water Not soluble

Miscible with water Partition coefficient: n-octanol/ : >3.5

water

Viscosity

: No.

: **≥**250°C [ASTM E 659] **Auto-ignition temperature**

: Not applicable. **Decomposition temperature**

: Kinematic (40°C): 85 mm²/s [ISO 3104]

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

Pour point : 42°C (-43.6°F)

SECTION 10: Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

: No specific data. 10.5 Incompatible materials

10.6 Hazardous decomposition products : carbon monoxide carbon dioxide Ammonia. Silicon Dioxide hydrogen chloride hydrogen fluoride

fluorophosgen nitrogen oxides phosphorus oxides Sodium oxides sulfur oxides Hydrogen sulfide Mercaptans

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Zinc oxides

SECTION 11: Toxicological information

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

Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test
Distillates (petroleum),	LC50 Inhalation Dusts	Rat - Male,	>5 mg/l	4 hours	OECD 403
hydrotreated heavy paraffinic		Female	5000 "		Read across
	LD50 Dermal	Rabbit - Male,	>5000 mg/kg	-	OECD 402
	I DEO Orol	Female	> E000 ma/ka		Read across
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	OECD 401 Read across
Phosphorodithioic acid,	LC50 Inhalation Vapor	Rat - Male,	>2.3 mg/l	4 hours	OECD 403
mixed O,O-bis	LC30 IIIIIalation Vapoi	Female	~2.5 mg/i	4 110015	OLOD 403
(1,3-dimethylbutyl and iso-		Terriale			
Pr) esters, zinc salts					
,	LD50 Dermal	Rat - Male,	>2002 mg/kg	-	OECD 402
		Female	0 0		
	LD50 Oral	Rat - Male,	3.2 g/kg	-	OECD 401
		Female			
Reaction products of	LC50 Inhalation Dusts	Rat	>1.9 mg/l	4 hours	EPA OPP
benzenesulfonic acid, mono-	and mists				81-3 Acute
C20-24 (even)-sec-alkyl					Inhalation
derivs. para-, calcium salts	I DE0 D	D. 1.1.16			Toxicity
	LD50 Dermal	Rabbit	>2000 mg/kg	-	OECD 402
Dhanal dadaayl byanabad	LD50 Oral	Rat	>5000 mg/kg	4 5 5	OECD 401
Phenol, dodecyl-, branched	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	-
	LD50 Dermal	Rabbit - Male	15000 mg/kg		OECD 402
	LD50 Definal	Rabbit - Male,	2100 mg/kg	-	OECD 402 OECD 401
	LD30 Olai	Female	Z 100 mg/kg	-	OEGD 401

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Acute toxicity estimates

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	3200	N/A	N/A	N/A	N/A
Phenol, dodecyl-, branched	2100	15000	N/A	N/A	5.1

Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	Eyes - Cornea opacity	Rabbit	1.66	-	-
	Skin - Primary dermal irritation index (PDII)	Guinea pig	4.3	-	OECD 404
Phenol, dodecyl-, branched	Eyes - Iris lesion Skin - Irritant	Rabbit Rabbit	0 -	-	OECD 405 OECD 404

Conclusion/Summary

SkinBased on available data, the classification criteria are not met.EyesBased on available data, the classification criteria are not met.

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Respiratory

: Based on available data, the classification criteria are not met.

Sensitization

Product/substance	Route of exposure	Species	Result
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts Reaction products of	skin	Guinea pig	Not sensitizing
benzenesulfonic acid, mono- C20-24 (even)-sec-alkyl derivs. para-, calcium salts Phenol, dodecyl-, branched	skin	Guinea pig Guinea pig	Sensitizing Not sensitizing

Conclusion/Summary :

Skin : Based on available data, the classification criteria are not met.Respiratory : Based on available data, the classification criteria are not met.

Mutagenicity

Product/substance	Test	Experiment	Result
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso- Pr) esters, zinc salts	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative
Phenol, dodecyl-, branched	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Carcinogenicity

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Reproductive toxicity

Product/substance	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Phenol, dodecyl-, branched	-	Positive	-		Oral: 15 mg/kg NOAEL	-

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Teratogenicity

Product/substance	Result	Species	Dose	Exposure
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso- Pr) esters, zinc salts	Negative - Oral	Rat - Male, Female	160 mg/kg NOAEL	-
Phenol, dodecyl-, branched	Positive - Oral	Rat - Female	-	-

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Conclusion/Summary: Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

Conclusion/Summary: Based on available data, the classification criteria are not met.

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Aspiration hazard

Product/substance	Result	
mineral oil	ASPIRATION HAZARD - Category 1	
Distillates (petroleum), hydrotreated heavy paraffinic	ASPIRATION HAZARD - Category 1	

Conclusion/Summary: Based on available data, the classification criteria are not met.

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact: Defatting to the skin. May cause skin dryness and irritation.

Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation dryness cracking

Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Product/substance	Result	Species	Dose	Exposure
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso- Pr) esters, zinc salts	Sub-chronic NOAEL Oral	Rat - Male, Female	160 mg/kg	-
Phenol, dodecyl-, branched	Sub-chronic NOAEL Oral	Rat - Male, Female	60 mg/kg	-

Conclusion/Summary: Not available.

General: No known significant effects or critical hazards.

Carcinogenicity : During use in engines, contamination of oil with low levels of combustion products

occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is

thoroughly removed by washing with soap and water.

Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : No known significant effects or critical hazards.

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11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

11.2.2 Other information

SECTION 12: Ecological information

This product contains one or more components that have a branched alkylphenol impurity which is very toxic to aquatic life (disclosed in section 3). Components containing the impurity have been tested and are not toxic to aquatic life. Therefore, the data in Section 3 for the alkylphenol impurity should not be used to classify the product for aquatic toxicity

12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
istillates (petroleum), hydrotreated heavy paraffinic	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EC50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Chronic NOEL >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	-
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso-Pr) esters, zinc salts	Acute EC50 24 mg/l	Algae - Desmodesmus subspicatus	72 hours	OECD 201
	Acute EC50 23 mg/l Acute LC50 4.5 mg/l	Daphnia - Daphnia magna Fish	48 hours 96 hours	OECD 202
Reaction products of benzenesulfonic acid, mono- C20-24 (even)-sec-alkyl derivs. para-, calcium salts	Acute EC50 >1000 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
,	Acute EC50 >1000 mg/l	Crustaceans - Daphnia magna	48 hours	-
	Acute LC50 >100 mg/l	Fish - Oncorhynchus	96 hours	OECD 203
Phenol, dodecyl-, branched	Acute EC50 0.36 mg/l	Algae - Scenedesmus subspicatus	72 hours	OECD 201
	Acute EC50 0.037 mg/l Acute LC50 40 mg/l	Daphnia - Daphnia magna Fish	48 hours 96 hours	OECD 202
	Acute NOEC 0.0037 mg/l	Daphnia - Daphnia magna	21 days	OECD 211

12.2 Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
vistillates (petroleum), hydrotreated heavy paraffinic		31 % - Not readily - 28 days	-	Activated sludge
Reaction products of benzenesulfonic acid, mono- C20-24 (even)-sec-alkyl derivs. para-, calcium salts	OECD 301F	8 % - Not readily - 28 days	-	Activated sludge

Conclusion/Summary: Not available.

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Product/substance	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum),	-	-	Not readily
hydrotreated heavy paraffinic Phosphorodithioic acid,	_		Not readily
mixed O,O-bis			readily
(1,3-dimethylbutyl and iso-			
Pr) esters, zinc salts Reaction products of	-		Not readily
benzenesulfonic acid, mono-			recticating
C20-24 (even)-sec-alkyl			
derivs. para-, calcium salts Phenol, dodecyl-, branched	-	-	Not readily

12.3 Bioaccumulative potential

Product/substance	LogK _{ow}	BCF	Potential
RUBIA WORKS 4000 FE 10W-30	>3.5	-	low
Distillates (petroleum), hydrotreated heavy paraffinic	>4	-	high
Phosphorodithioic acid, mixed O,O-bis (1,3-dimethylbutyl and iso- Pr) esters, zinc salts	0.56	-	low
Phenol, dodecyl-, branched	7.14	794.33	high

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility

: Not available.

Mobility in soil

: Given its physical and chemical characteristics, the product generally shows low soil

mobility The product is insoluble and floats on water Loss by evaporation is limited

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %.

12.6 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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Methods of disposal : The generation of waste should be avoided or minimized wherever possible.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities

with jurisdiction.

Hazardous waste : Yes.

> According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used The following Waste Codes are only

suggestions: 13 02 05*

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste

packaging should be recycled. Incineration or landfill should only be considered

when recycling is not feasible.

: This material and its container must be disposed of in a safe way. Empty containers Special precautions

or liners may retain some product residues. Avoid dispersal of spilled material and

runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ICAO/IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

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Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Phenol, dodecyl-, branched Phenol, dodecyl-, branched	Toxic to reproduction Substance of equivalent concern for	Candidate Candidate	-	-
Phenol, dodecyl-, branched	human health Substance of	Candidate	-	-

equivalent concern for

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

environment

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
	Sweden Occupational Exposure Limits	oil mist, incl. oil fumes	Carc. C	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

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Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

LU - Luxembourg prohibited chemicals in the workplace

Not listed.

Inventory list

Australia inventory (AIIC) : All components are listed or exempted.

Canada inventory (DSL/NDSL) : All components are listed or exempted.

China inventory (IECSC) : Not determined.

Europe inventory (EC) : MI components are listed or exempted.

Japan inventory : Japan inventory (CSCL): All components are listed or

exempted.

Japan inventory (ISHL): Not determined.

New Zealand Inventory of Chemicals (NZIoC) : MI components are listed or exempted.

Philippines inventory (PICCS) : All components are listed or exempted.

Korea inventory (KECI) : MI components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI) : All components are listed or exempted.

Thailand inventory : Not determined.

Turkey inventory : Not determined.

United States inventory (TSCA 8b) : All components are listed or exempted.

Vietnam inventory : Not determined.

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still

required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative PNEC = Predicted No Effect Concentration

LC50 = Median lethal concentration

LD50 = Median lethal dose

OEL = Occupational Exposure Limit VOC = Volatile Organic Compound

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UVCB Substance of unknown or Variable composition, Complex reaction products or Biological material

NOEC No Observed Effect Concentration

QSAR = Quantitative Structure-Activity Relationship

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Not classified.		

Full text of abbreviated H statements

F 304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H360F	May damage fertility.
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.

Full text of classifications [CLP/GHS]

Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Asp. Tox. 1	AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Repr. 1B	TOXIC TO REPRODUCTION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B

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Version : 2

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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