SAFETY DATA SHEET



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

RUBIA WORKS 4000 10W-40

SDS #: 088755

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

1.1 Product identifier

Product name : RUBIA WORKS 4000 10W-40

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

rm.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

sm.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.

2.2 Label elements

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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

articles

: Contains Calcium carbonate monopolybutenylbenzene sulfonate succinate

complexes and Molybdenum polysulphide long chain alkyl dithiocarbamate complex.

May produce an allergic reaction.
Safety data sheet available on request.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and : 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 %. 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 Delagated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

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
Distillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7 Index: 649-467-00-8	≥25 - ≤50	Asp. Tox. 1, H304	-	[1] [2]
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- butyl-4-hydroxyphenyl) propionate	REACH #: 01-0000015551-76 EC: 406-040-9 CAS: 125643-61-0	≤3	Aquatic Chronic 4, H413	-	[1]
Distillates (petroleum), solvent-dewaxed heavy paraffinic	REACH #: 01-2119471299-27 EC: 265-169-7 CAS: 64742-65-0 Index: 649-474-00-6	≤3	Asp. Tox. 1, H304	-	[1] [2]
Distillates (petroleum), solvent-dewaxed light paraffinic	REACH #: 01-2119480132-48 EC: 265-159-2 CAS: 64742-56-9 Index: 649-469-00-9	≤3	Asp. Tox. 1, H304	-	[1] [2]

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Distillates (petroleum), hydrotreated light paraffinic	REACH #: 01-2119487077-29 EC: 265-158-7 CAS: 64742-55-8	≤3	Asp. Tox. 1, H304	-	[1] [2]
Distillates (petroleum), solvent-refined light paraffinic	REACH #: 01-2119487067-30 EC: 265-091-3 CAS: 64741-89-5	≤3	Asp. Tox. 1, H304	-	[1] [2]
Paraffin oils (petroleum), catalytic dewaxed heavy	REACH #: 01-2119487080-42 EC: 265-174-4 CAS: 64742-70-7	≤3	Asp. Tox. 1, H304	-	[1] [2]
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	REACH #: 01-2119543726-33 EC: 298-577-9 CAS: 93819-94-4	<2.5	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]
Calcium carbonate monopolybutenylbenzene sulfonate succinate complexes	CAS: 252315-85-8	<1	Skin Sens. 1, H317	-	[1]
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	REACH #: 01-0000019337-66 EC: 457-320-2	≤0.3	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	-	[1]

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

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.

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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: Wash 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.

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

: carbon monoxide carbon dioxide nitrogen oxides phosphorus 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.

chemical incidents.

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

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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

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 noncombustible, 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)

: Not available. Recommendations Industrial sector specific : Not available.

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solutions



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/substance	Exposure limit values
☑istillates (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
Distillates (petroleum), solvent-dewaxed 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
Distillates (petroleum), solvent-dewaxed light	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
Distillates (petroleum), hydrotreated light	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
Distillator (natural complete and natural control limbs	STEL: 3 mg/m³ 15 minutes. Form: mist and fume
Distillates (petroleum), solvent-refined light	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
Daraffin aila (natralaum), aatalytia dawayad	•
Paraffin oils (petroleum), catalytic dewaxed heavy	Work environment authority Regulation 2018:1 (Sweden, 9/2021). [oil mist, incl. oil fumes]
lieavy	
	TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume
	OTEL. 3 mg/m 13 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.

procedures

Recommended monitoring: 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

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Product/substance	Туре	Exposure	Value	Population	Effects
Distillates (petroleum), hydrotreated	DNEL	Long term	5.58 mg/m ³	Workers	Local
heavy paraffinic	DNEL	Inhalation Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.73 mg/m³	Workers	Systemic
	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.19 mg/m³	General population	Local
	DNEL	Long term Inhalation	2.73 mg/m ³		Systemic
	DNEL	Long term Inhalation	5.58 mg/m³	Workers	Local
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl- 4-hydroxyphenyl)propionate	DNEL	Long term Inhalation	3 mg/m³	Workers	Systemic
ч пушохурнопунргорюнаю	DNEL	Long term Dermal	8.6 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.74 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	4.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.43 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.006 mg/	Workers	Local
	DNEL	Long term Oral	0.16 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.22 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0.33 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.74 mg/m³		Systemic
	DNEL DNEL	Short term Dermal Long term Inhalation	1 mg/cm ² 2.33 mg/m ³	Workers	Local Systemic
	DNEL	Short term Dermal	8.33 mg/ cm ²	General population	Local
	DNEL	Short term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	50 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	50 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	875 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	1750 mg/	Workers	Systemic
Distillates (petroleum), solvent- dewaxed heavy paraffinic	DNEL	Long term Inhalation	5.58 mg/m ³	Workers	Local
uewaxeu neavy paramme	DNEL	Long term Inhalation	1.19 mg/m³	General population	Local

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	DNEL	Long term Oral	740 µg/kg	General population	Systemic
	DNE	Long torm Dormal	070 ug/kg		Cuatamia
	DNEL	Long term Dermal	970 µg/kg	Workers	Systemic
	DNEL	Long term	2.73 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term Oral	0.74 mg/	General	Systemic
			kg bw/day	population	,
	DNEL	Long term Dermal	0.97 mg/	Workers	Systemic
		Long torm Bornia	kg bw/day	Workers	Cyclonno
	DNE			Conoral	Land
	DNEL	Long term	1.19 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	2.73 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term	5.58 mg/m ³	Workers	Local
		Inhalation			
Distillates (petroleum), solvent-	DNEL	Long term Oral	0.74 mg/	General	Systemic
dewaxed light paraffinic	- 1 - 1		kg bw/day	population	- ,
dewaxed light paranille	DNEL	Long term Dermal	0.97 mg/	Workers	Systemic
	DIVLL	Long term Dermai	•	WOIKEIS	Systernic
	D. 151		kg bw/day	0 1	
	DNEL	Long term	1.19 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	2.73 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term	5.58 mg/m ³	Workers	Local
		Inhalation	J		
Distillates (petroleum), hydrotreated	DNEL	Long term	5.4 mg/m ³	Workers	Local
light paraffinic	DIVLE	Inhalation	O.4 mg/m	WOIKOIS	Local
iight paramilic	DNE		1.0 mg/m3	Canaral	Local
	DNEL	Long term	1.2 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term Oral	0.74 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.97 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	1.19 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	2.73 mg/m ³	Workers	Systemic
	DIVLL	Inhalation	2.75 mg/m	WORKEIS	Cysternic
	DAIEL		E EO/3	\\/	1 1
	DNEL	Long term	5.58 mg/m ³	vvorkers	Local
		Inhalation			
Distillates (petroleum), solvent-	DNEL	Long term	5.4 mg/m ³	Workers	Local
refined light paraffinic		Inhalation			
	DNEL	Long term	1.2 mg/m ³	General	Local
		Inhalation	_	population	
	DNEL	Long term Oral	0.74 mg/	General	Systemic
		J 3.4.	kg bw/day	population	,
	DNEL	Long term Dermal	0.97 mg/	Workers	Systemic
	DIVLE	Long tolli Dellial	•	VVOINCIS	Cystoffile
	חאבי	Lang tarm	kg bw/day	Conoral	
	DNEL	Long term	1.19 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	2.73 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term	5.58 mg/m ³	Workers	Local
		Inhalation			
Paraffin oils (petroleum), catalytic	DNEL	Long term Oral	0.74 mg/	General	Systemic
dewaxed heavy			kg bw/day	population	
Tomanou moury	DNEL	Long term Dermal	0.97 mg/	Workers	Systemic
	DINCE	Long will Delillal		VVOINGIO	Cystollilo
	ראיבי		kg bw/day	Camaral	
	DNEL	Long term	1.19 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	2.73 mg/m ³	Workers	Systemic
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		Inhalation			
	DNEL	Long term	5.58 mg/m ³	Workers	Local
		Inhalation			
zinc bis[O-(6-methylheptyl)] bis[O-	DNEL	Long term Oral	0.24 mg/	General	Systemic
(sec-butyl) bis(dithiophosphate)		0	kg bw/day	population	,
	DNEL	Long term Dermal	0.29 mg/	General	Systemic
			kg bw/day	population	-,
	DNEL	Long term Dermal	0.58 mg/	Workers	Systemic
	DIVLL	Long tomi Bomia	kg bw/day	WOINGIO	Cyclonic
	DAIEI	1 4	,	0	0
	DNEL	Long term	2.11 mg/m ³		Systemic
		Inhalation		population	
	DNEL	Long term	8.31 mg/m ³	Workers	Systemic
		Inhalation			-

PNECs

Product/ingredient name	Compartment Detail	Name	Method Detail
istillates (petroleum), hydrotreated heavy paraffinic	Secondary Poisoning	9.33 mg/kg	-
reaction mass of isomers of: C7-9-alkyl 3- (3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Fresh water	0.0043 mg/l	-
	Marine water	0.00043 mg/l	-
	Fresh water sediment	233 mg/kg dwt	-
	Marine water sediment	23.3 mg/kg dwt	-
	Soil	189 mg/kg	-
Distillates (petroleum), solvent-dewaxed neavy paraffinic	Secondary Poisoning	9.33 mg/kg	-
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	Fresh water	0.004 mg/l	-
, ,	Marine water	0.0046 mg/l	-
	Fresh water sediment	0.0116 mg/kg dwt	-
	Marine water sediment	0.00116 mg/kg dwt	-
	Soil	0.00528 mg/kg	-
	Sewage Treatment Plant	100 mg/l	-
	Secondary Poisoning	10.67 mg/kg dwt	-

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.

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

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.

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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: None under normal use conditions. If these are not sufficient to maintain exposure

below the OEL, suitable respiratory protection must be worn (Type A/P1).

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 : Clear.

Odor : Characteristic.
Odor threshold : Not available.

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

Melting point/freezing point : ▼echnically not possible to measure

Pour point : -36°C (-32.8°F)

Initial boiling point and

boiling range

: >300°C [EN ISO 3405]

Flash point : pen cup: 233°C [ASTM D 92]

Evaporation rate : Not available.

Flammability : Mot applicable.

Lower and upper explosion : ✓ wer: 0.9%

limit Upper: 7%

Vapor pressure : ▼0.013 kPa [room temperature] [ASTM D 5191]

Not applicable. [50°C]

Vapor density : \triangleright 2 [Air = 1]

Relative density : **0**.854 [ISO 12185]

Density : **Ø**.854 g/cm³ [20°C] [ISO 12185]

Solubility(ies) :

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Media	Result
w ater	Not soluble

Miscible with water : No.

Partition coefficient: n-octanol/ : Not available.

water

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

Decomposition temperature: Not applicable.

Viscosity : Kinematic (40°C): 1.06 cm²/s [ASTM D 445]

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

No other relevant physical and chemical parameters for the safe use of the product

SECTION 10: Stability and reactivity

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

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.

10.5 Incompatible materials : Strong oxidizing agents

10.6 Hazardous

decomposition products

: carbon monoxide carbon dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans 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
D istillates (petroleum),	LC50 Inhalation Dusts	Rat - Male,	>5 mg/l	4 hours	OECD 403
hydrotreated heavy paraffinic	and mists	Female	_		Read across
	LD50 Dermal	Rabbit - Male,	>5000 mg/kg	-	OECD 402
		Female			Read across
	LD50 Oral	Rat - Male,	>5000 mg/kg	-	OECD 401
		Female			Read across
Distillates (petroleum), solvent-dewaxed heavy	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	OECD 403

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paraffinic	1				
F	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 420
Distillates (petroleum),	LC50 Inhalation Dusts	Rat	>5 mg/l	4 hours	OECD 403
solvent-dewaxed light	and mists				
paraffinic					
	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402
5	LD50 Oral	Rat	>5000 mg/kg	-	OECD 401
Distillates (petroleum),	LC50 Inhalation Dusts	Rat	>5 mg/l	4 hours	OECD 403
hydrotreated light paraffinic	and mists	Dalakit	> F000//		OFOD 400
	LD50 Dermal LD50 Oral	Rabbit	>5000 mg/kg	-	OECD 402 OECD 420
Distillates (petroleum),	LC50 Inhalation Dusts	Rat Rat	>5000 mg/kg 5.1 mg/l	4 hours	OECD 420 OECD 403
solvent-refined light	and mists	Nat	5. i ilig/i	4 110urs	OECD 403
paraffinic	and mists				
paramine	LD50 Dermal	Rabbit	>5000 mg/kg	_	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	_	OECD 420
Paraffin oils (petroleum),	LC50 Inhalation Dusts	Rat	5.1 mg/l	4 hours	-
catalytic dewaxed heavy	and mists				
	LC50 Inhalation Vapor	Rat	80.4 mg/l	1 hours	-
	LC50 Inhalation Vapor	Rat	20.1 mg/l	4 hours	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-	-
	LD50 Oral	Rat	>5000 mg/kg	4 1	- OFOD 400
zinc bis[O-(6-methylheptyl)]	LC50 Inhalation Dusts	Rat - Male	>2 mg/l	1 hours	OECD 403
bis[O-(sec-butyl)] bis (dithiophosphate)	and mists				
(ditiliophosphate)	LD50 Dermal	Rabbit - Male.	>3160 mg/kg	_	OECD 402
	LB30 Berniai	Female	> 5 Too mg/kg	_	OLOD 402
	LD50 Oral	Rat - Male	2600 mg/kg	_	_
Calcium carbonate	LD50 Dermal	Rabbit	>2000 mg/kg	_	OECD 402
monopolybutenylbenzene					
sulfonate succinate					
complexes					
	LD50 Oral	Rat	>2000 mg/kg	-	OECD 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)
istillates (petroleum), solvent-refined light paraffinic	N/A	N/A	N/A	N/A	5.1
Paraffin oils (petroleum), catalytic dewaxed heavy zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	N/A 2600	N/A N/A	N/A N/A	20.1 N/A	5.1 N/A

Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
	Eyes - Irritant	Rabbit	-	-	-
	Skin - Irritant	Rabbit	-	4 hours	OECD 404

Conclusion/Summary

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

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Sensitization

Conclusion/Summary

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

May produce an allergic reaction.

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

Mutagenicity

Product/substance	Test	Experiment	Result
znc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative

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

Carcinogenicity

Product/substance	Result	Species	Dose	Exposure
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- butyl-4-hydroxyphenyl) propionate	Negative - Oral - TC	Rat - Male, Female	-	-

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

Reproductive toxicity

Product/substance	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
zínc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	Negative	Negative	Negative	Rat - Male, Female	Oral	-

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

Teratogenicity

Product/substance	Result	Species	Dose	Exposure
Znc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	Negative - Oral	Rat - Male, 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.

Aspiration hazard

Product/substance	Result
vistillates (petroleum), hydrotreated heavy paraffinic	ASPIRATION HAZARD - Category 1
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ASPIRATION HAZARD - Category 1
Distillates (petroleum), solvent-dewaxed light paraffinic	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated light paraffinic	ASPIRATION HAZARD - Category 1
Distillates (petroleum), solvent-refined light paraffinic	ASPIRATION HAZARD - Category 1
Paraffin oils (petroleum), catalytic dewaxed heavy	ASPIRATION HAZARD - Category 1

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

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Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards. Inhalation : 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
znc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	Sub-chronic LOAEL Dermal	Rabbit - Male, Female	70 mg/kg	-
	Sub-chronic NOAEL Oral	Rat - Male, Female	160 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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

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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

12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
stillates (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	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Acute EL50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
•	Acute LL50 >1000 mg/l	Fish - Oncorhynchus mykiss	96 hours	OECD 203
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	OECD 211
Distillates (petroleum), solvent-dewaxed light paraffinic	Acute EL50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
F	Acute EL50 10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute EL50 ≥100 mg/l	Fish - Pimephales promelas	96 hours	OECD 203
	Chronic NOEL >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	OECD 211
Distillates (petroleum), hydrotreated light paraffinic	Acute EC50 >100 mg/l	Algae - Pseudokirchnerella subcapitata	48 hours	OECD 201
	Acute EC50 >10000 mg/l Chronic NOEL 10 mg/l Chronic NOEL >1000 mg/l	Daphnia - Daphnia magna Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	48 hours 21 days 21 days	OECD 202 OECD 211 -
Distillates (petroleum), solvent-refined light paraffinic	Acute EC50 >100 mg/l	Algae - Pseudokirchnerella subcapitata	48 hours	OECD 201
	Acute EC50 >10000 mg/l Chronic NOEL 10 mg/l Chronic NOEL >1000 mg/l	Daphnia - Daphina Magna Daphnia - Daphina Magna Fish - Oncorhynchus	48 hours 21 days 21 days	OECD 202 OECD 211 -
Paraffin oils (petroleum),	Acute EC50 10000 mg/l	mykiss Daphnia	48 hours	-
catalytic dewaxed heavy	Acute NOEL 101 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	-
zinc bis[O-(6-methylheptyl)]	Acute EC50 2 mg/l	Algae - Selenastrum	96 hours	OECD 201

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bis[O-(sec-butyl)] bis (dithiophosphate)		capricornutum		
(diamophicophiato)	Acute EC50 5.4 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute LC50 4.5 mg/l	Fish - Oncorhynchus mykiss	96 hours	OECD 203
	Chronic NOEC 1 mg/l	Algae - Selenastrum capricornutum	96 hours	OECD 201
	Chronic NOEC 0.4 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 211
Calcium carbonate monopolybutenylbenzene sulfonate succinate complexes	Acute EC50 1000 mg/l	Algae	72 hours	-
	Acute EC50 1000 mg/l Acute LC50 1000 mg/l	Daphnia - Daphnia magna Fish	48 hours 96 hours	OECD 202
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	Acute EC50 9.6 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
,	Acute EC50 50 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute LC50 94.8 mg/l	Fish - Oncorhynchus mykiss	96 hours	OECD 203
	Chronic NOEC 4.1 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201

12.2 Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
istillates (petroleum), hydrotreated heavy paraffinic	OECD 301F	31 % - Not readily - 28 days	-	Activated sludge
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- butyl-4-hydroxyphenyl) propionate	OECD 301B	2 % - Not readily - 28 days	-	Activated sludge
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 301F	31 % - Not readily - 28 days	-	Activated sludge
Distillates (petroleum), solvent-dewaxed light paraffinic	OECD 301F	31 % - Not readily - 28 days	-	Activated sludge
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	OECD 301B	0 % - Not readily - 28 days	-	Activated sludge
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	OECD 301B	0 % - Not readily - 28 days	-	Activated sludge

Conclusion/Summary: Not available.

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Product/substance	Aquatic half-life	Photolysis	Biodegradability
istillates (petroleum), hydrotreated heavy paraffinic	-	-	Not readily
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- butyl-4-hydroxyphenyl)		-	Not readily
propionate Distillates (petroleum), solvent-dewaxed heavy paraffinic	-	-	Not readily
Distillates (petroleum), solvent-dewaxed light paraffinic	-	-	Not readily
Paraffin oils (petroleum), catalytic dewaxed heavy	-	-	Not readily
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	-	-	Not readily
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	-	-	Not readily

12.3 Bioaccumulative potential

Product/substance	LogK _{ow}	BCF	Potential
KUBIA WORKS 4000 10W- 40	>3.5	-	low
Distillates (petroleum), hydrotreated heavy paraffinic	>4	-	high
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- butyl-4-hydroxyphenyl) propionate	9.2	260	low
Distillates (petroleum), solvent-dewaxed heavy paraffinic	9.2	260	low
Distillates (petroleum), solvent-dewaxed light paraffinic	3.1	-	low
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	0.9	-	low
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	>5.1	88	low

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 %.

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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

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.

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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

: Not available.

: Not applicable.

instruments

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

None of the components are listed.

Annex XVII - Restrictions on the manufacture. placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

▼ake 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

: Not listed Industrial emissions

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

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

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Product/ingredient name	List name	Name on list	Classification	Notes
istillates (petroleum), hydrotreated heavy paraffinic	Sweden Occupational Exposure Limits	oil mist, incl. oil fumes	Carc. C	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Sweden Occupational Exposure Limits	oil mist, incl. oil fumes	Carc. C	-
Distillates (petroleum), solvent-dewaxed light paraffinic	Sweden Occupational Exposure Limits	oil mist, incl. oil fumes	Carc. C	-
Distillates (petroleum), hydrotreated light paraffinic	Sweden Occupational Exposure Limits	oil mist, incl. oil fumes	Carc. C	-
Distillates (petroleum), solvent-refined light paraffinic	Sweden Occupational Exposure Limits	oil mist, incl. oil fumes	Carc. C	-
Paraffin oils (petroleum), catalytic dewaxed heavy	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

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) : All components are listed, exempted, or notified.

Europe inventory (EC) : All 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)

Philippines inventory (PICCS)

Korea inventory (KECI)

: All components are listed or exempted.

: All components are listed or exempted.

: MI components are listed or exempted.

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

: Not determined. Thailand inventory **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

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

	May be fatal if swallowed and enters airways.
	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications [CLP/GHS]

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Aquatic Chronic 2
Aquatic Chronic 3
Aquatic Chronic 3
Aquatic Chronic 4
Asp. Tox. 1

AQUATIC HAZARD (LONG-TERM) - Category 2
AQUATIC HAZARD (LONG-TERM) - Category 4
ASPIRATION HAZARD - Category 1

Eye Dam. 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1
Skin Sens. 1B
SKIN SENSITIZATION - Category 1
SKIN SENSITIZATION - Category 1B

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Version : 2

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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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