

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758 EVOLUTION 700 STI 10W-40

SDS no. 082000

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

1.1 Product identifier

Product name

identification

: EVOLUTION 700 STI 10W-40

Product code Product description Product type Other means of : 082000

: Not available.

: Liquid.

: Not available.

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

Identified uses

Not applicable.

Uses advised against Not applicable.

Not applicable.

1.3 Details of the supplier of the safety data sheet

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H.S.E

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number	1	National Poisons Information Service (NPIS): 111
Supplier		
Telephone number	- :	Emergency telephone: +44 1235 239670
Hours of operation	1	Edit the content of sentence <gb -="" hours="" number="" of="" operation="" supplier="" telephone=""> to define this output</gb>
Information limitations	:	Edit the content of sentence <gb -="" information="" limitations="" number="" supplier="" telephone=""> to define this output</gb>



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SECTION 2: Hazards	ic	lentification
2.1 Classification of the subs	tar	nce or mixture
Product definition	:	Mixture
Classification according to	Re	gulation (EC) No. 1272/2008 [CLP/GHS]
Not classified.		
•		nazardous according to UK CLP Regulation SI 2019/720 as amended.
Ingredients of unknown ecotoxicity	:	$ ot\!$
See Section 11 for more detai	lec	l information on health effects and symptoms.
2.2 Label elements		
Signal word	:	No signal word.
Hazard statements	1	No known significant effects or critical hazards.
Precautionary statements		
Prevention	1	Not applicable.
Response	4	Not applicable.
Storage	4	Not applicable.
Disposal	1	Not applicable.
Supplemental label elements	:	Contains Calcium long chain alkaryl sulfonate. 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 articles	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII		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 Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.
Other hazards which do not result in classification		Fazard of slipping on spilt product.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture



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Product/ingredient name	Identifiers	%	Classification	Тур
ubricating oils (petroleum), C20-50, hydrotreated neutral oil- based	REACH #: 01-2119474889-13 EC: 276-738-4 CAS: 72623-87-1 Index: 649-483-00-5	≥10 - ≤25	Asp. Tox. 1, H304	[1]
Phosphorodithioic acid, mixed O, O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	REACH #: 01-2119657973-23 EC: 272-238-5 CAS: 68784-31-6	<2.5	Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1]
			See Section 16 for the full text of the H statements declared above.	

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

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

SECTION 4: First aid measures					
4.1 Description of first aid n	neasures				
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. 				
Skin contact	: ₩ash skin thoroughly with soap and water or use recognised 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	: \mathbf{N}_{0} 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 : No specific data. Eye contact : No specific data. Inhalation : Adverse symptoms may include the following: Skin contact irritation dryness cracking : No specific data. Ingestion



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SECTION 4: First aid measures

4.3 Indication of any immedi	ate medical attention and special treatment needed
Notes to physician	: Preat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	:
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	from the substance or mixture
Hazards from the substance or mixture	: 🕅 a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: carbon monoxide carbon dioxide phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Fromptly 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.
SECTION 6: Acciden	ntal release measures
6.1 Personal precautions, pr	otective equipment and emergency procedures

o. Treisonal precautions, pro		cuve 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 spilt material. Put on appropriate personal protective equipment.
For emergency responders	:	
6.2 Environmental precautions	:	Noid dispersal of spilt 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 material for containment and cleaning up



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SECTION 6: Accidental release measures

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 (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: F ut on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Fating, 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 unlabelled 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

No exposure limit value known.

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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SECTION 8: Exposure controls/personal protection

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 appropriate monitoring standards. Beference to national guidance documents for methods for the
	standards. 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
Ubricating oils (petroleum), C20-50,	DNEL	Long term	2.73 mg/m ³	Workers	Systemic
hydrotreated neutral oil-based	DNEL	Inhalation Long term Oral	0.74 mg/	General	Local
		1	kg bw/day	population	
	DNEL	Long term Inhalation	5.58 mg/m ³	Workers	Local
	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.74 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 0.97 mg/	population Workers	Systemic
		-	kg bw/day		
	DNEL	Long term Inhalation	1.19 mg/m ³	General	Local
	DNEL	Long term	2.73 mg/m ³	population Workers	Systemic
		Inhalation			-
	DNEL	Long term Inhalation	5.58 mg/m ³	Workers	Local
Phosphorodithioic acid, mixed O,O-	DNEL	Long term Oral	0.21 mg/	General	Systemic
bis(sec-Bu and 1,3-dimethylbutyl)			kg bw/day	population	
esters, zinc salts	DNEL	Long term Dermal	2.1 mg/kg	General	Systemic
		-	bw/day	population	-
	DNEL	Long term Inhalation	2.93 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	10.42 mg/	Workers	Systemic
	DNEL	Long term	kg bw/day 11.75 mg/	General	Systemic
	DINCL	Inhalation	m ³	population	Systemic
	DNEL	Short term Dermal	50 mg/kg	General	Systemic
	DNEL	Short term Dermal	bw/day 100 mg/kg	population Workers	Systemic
	DITLE		bw/day	Workere	oyotonno
	DNEL	Short term Inhalation	198.6 mg/ m³	General	Systemic
	DNEL	Short term	496.4 mg/	population Workers	Systemic
		Inhalation	m³		
	DNEL	Long term Dermal	9.6 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	6.6 mg/m ³	Workers	Systemic
	DNEL	Inhalation Long term Dermal	4.8 mg/kg	General	Systemic
		-	bw/day	population	-
	DNEL	Long term Inhalation	1.67 mg/m³	General population	Systemic
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SECTION 8: Exposure controls/personal protection					
	ONEL	Long term Oral	0.19 mg/ kg bw/day	General population	Systemic
	ONEL	Short term Oral	29 mg/kg bw/day	General population	Systemic

PNECs

Product/substance	Compartment Detail	Value	Method Detail
Phosphorodithioic acid, mixed O,O-bis(sec- Bu and 1,3-dimethylbutyl) esters, zinc salts	Fresh water	4 µg/l	-
	Marine water	4.6 µg/l	-
	Marine water sediment	0.00701 mg/kg dwt	-
	Soil	0.0548 mg/kg dwt	-
	Sewage Treatment Plant	3.8 mg/l	-

8.2 Exposure controls	
Appropriate engineering controls	: Sood general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	ures
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.
	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.



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SECTION 8: Exposure controls/personal protection

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

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<u>Appearance</u>		
Physical state	:	Liquid. [Clear]
Colour	:	Yellow.
Odour	:	Characteristic.
Odour threshold	:	Not available.
Melting point/freezing point	:	Fechnically not possible to measure
Initial boiling point and boiling range	:	▶316°C (>600.8°F) [ISO 3405]
Flammability (solid, gas)	:	Not applicable.
Upper/lower flammability or explosive limits	:	<mark>⊭</mark> ower: 0.9% Upper: 7%
Flash point	:	Open cup: 232°C (449.6°F) [ASTM D 92]
Auto-ignition temperature	:	✓232°C (>449.6°F) [ASTM E 659]
Decomposition temperature	:	Not applicable.
рН	:	Not applicable.
Viscosity	:	Kinematic (40°C): 96.81 mm²/s [ASTM D 445]
Solubility(ies)	:	
Media		Result
water		Not soluble
Solubility in water	:	Ø.955 g/l
Miscible with water	:	No.
Partition coefficient: n-octanol/ water	:	Not applicable.
Vapour pressure	:	✓0.013 kPa (<0.1 mm Hg) [room temperature] Not applicable. [50°C (122°F)]
Relative density		Ø.873 [ISO 12185]
Density	:	Ø.873 g/cm³ [15°C (59°F)] [ISO 12185]
Vapour density	:	▶2 [Air = 1]
Particle characteristics		
Median particle size	1	Not applicable.

9.2 Other information



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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	:	☑nder 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	:	No specific data.
10.6 Hazardous decomposition products	:	carbon monoxide carbon dioxide 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
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	OECD 403
	LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-	OECD 402 Read across
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	OECD 401 Read across
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402 Acute Dermal Toxicity
	LD50 Oral	Rat	3.4 g/kg	-	OECD 401 Acute Oral Toxicity

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 (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Ubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	N/A	N/A	N/A	N/A	5.1
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	3400	N/A	N/A	N/A	N/A
rritation/Corrosion		N.			

Irritation/Corrosion



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SECTION 11: Toxicological information

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Product/substance	Result	Species	Score	Exposure	Test
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Eyes - Irritant	Rabbit	-	-	OECD 405
	Skin - Oedema	Rabbit	0.5	4 hours	OECD 404 Acute Dermal Irritation/ Corrosion
	Skin - Erythema/Eschar	Rabbit	1.3	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. The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, classification is not required

Respiratory

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

Sensitisation

Product/substance	Route of exposure	Species	Result
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	skin	Guinea pig	Not sensitizing

Conclusion/Summary

Skin

: **B**ased on available data, the classification criteria are not met. Contains sensitiser May produce an allergic reaction.

Respiratory Mutagenicity

Product/substance	Test	Experiment	Result
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative

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

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	Developmental toxin	Species	Dose	Exposure
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	-	Negative	Negative		Oral: 30 mg/kg NOAEL	-

Conclusion/Summary

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



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SECTION 11: Toxico	logical information		
Teratogenicity			
Conclusion/Summary	: Based on available data, the clas	sification criteria are not met.	
Specific target organ toxici	<u>ty (single exposure)</u>		
Not available.			
Conclusion/Summary	: Based on available data, the clas	sification criteria are not met.	
Specific target organ toxici	<u>ty (repeated exposure)</u>		
Not available.			
Conclusion/Summary	: Based on available data, the clas	sification criteria are not met	
Aspiration hazard			
	ict/substance	Result	
	C20-50, hydrotreated neutral oil-	ASPIRATION HAZARD - Category 1	
based		Act invention invention - category i	
Conclusion/Summary	: B ased on available data, the clas	sification criteria are not met.	
Information on likely routes of exposure	: Not available.		
Potential acute health effect	S		
Eye contact	: No known significant effects or cr	itical hazards.	
Inhalation	: No known significant effects or cr	itical hazards.	
Skin contact	: Defatting to the skin. May cause	skin dryness and irritation.	
Ingestion	: No known significant effects or cr	itical hazards.	
Symptoms related to the phy	vsical, chemical and toxicological c	haracteristics	
Eye contact	: 📈 specific data.		
Inhalation	: No specific data.		
Skin contact	 Adverse symptoms may include t irritation dryness cracking 	he following:	
Ingestion	: No specific data.		
Delayed and immediate effect	cts as well as chronic effects from s	short and long-term exposure	
Short term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Long term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Potential chronic health eff	ects		



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SECTION 11: Toxicological information

Product/substance	Result	Species	Dose	Exposure
		-		Exposure
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Sub-acute NOAEL Oral	Rat	125 mg/kg	-
Conclusion/Summary	: Not available.			
General	: No known significant effect	s or critical haza	ards.	
Carcinogenicity	: During use in engines, con occurs. Used motor oils have repeated application and co with used motor oil is not en- thoroughly removed by was	ave been shown ontinuous expos xpected to have	to cause skin cance sure. Brief or intermit serious effects in hu	r in mice following ttent skin contact
Mutagenicity	: No known significant effect	s or critical haza	ards.	
Reproductive toxicity	: No known significant effect	s or critical haza	ards.	

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

12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
Ubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Acute EL50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	48 hours	OECD 201
	Acute EL50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute LL50 >100 mg/l	Fish - Pimephales promelas	96 hours	OECD 203
	Chronic NOEL >100 mg/l	Álgae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	OECD 211
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Acute EC50 240 mg/l	Algae - Desmodesmus subspicatus	72 hours	-
	Acute EC50 75 mg/l Acute LC50 4.4 mg/l	Daphnia - Daphnia magna Fish	48 hours 96 hours	-

Conclusion/Summary

: Not available.

12.2 Persistence and degradability



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SECTION 12: Ecolog	ical informa	ation			
Product/substance	Test	Result		Dose	Inoculum
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 301F	31 % - Not readily	- 28 days	-	Activated sludge
Conclusion/Summary	: Not available				
Product/substance	Aquatic half-lif	e	Photolys	is	Biodegradability
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	-		-		Not readily

12.3 Bioaccumulative potential

Product/substance	LogPow	BCF	Potential
hosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	4	-	high

12.4 Mobility in soil	
Soil/water partition coefficient (K _{oc})	: 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.

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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product



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SECTION 13: Disposal considerations

Methods of disposal	: The generation of waste should be avoided or minimised 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	: ₩ithin the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
	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	Provide the second description of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	Phis material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt 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 : Not available. bulk according to IMO instruments



SDS no. 1

082000

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB) /REACH Annex XIV - List of substances subject to authorisation Annex XIV None of the components are listed. Substances of very high concern None of the components are listed. **Ozone depleting substances** Not listed. **Prior Informed Consent (PIC)** Not listed. **Persistent Organic Pollutants** Not listed. **Annex XVII - Restrictions** : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles **Seveso Directive** his product is not controlled under the Seveso Directive. **EU regulations Industrial emissions** : Not listed (integrated pollution prevention and control) -Air **Industrial emissions** : Not listed (integrated pollution prevention and control) -Water 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.

Inventory list



SDS no. : 082000

SECTION 15: Regulatory information	ation	
Australia inventory (AIIC)	: Not determined.	
Canada inventory	: Not determined.	
China inventory (IECSC)	: Not determined.	
Europe inventory	: 🕅 components are listed or exempted.	
Japan inventory	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.	
New Zealand Inventory of Chemicals (NZIoC)	: All components are listed or exempted.	
Philippines inventory (PICCS)	: 🗚 least one component is not listed.	
Korea inventory (KECI)	: Not determined.	
Taiwan Chemical Substances Inventory (TCSI)	: Not determined.	
Thailand inventory	: Not determined.	
Turkey inventory	: Not determined.	
United States inventory (TSCA 8b)	: 🗚 least one component is not listed.	
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	1	This product contains substances for which Chemical Safety Assessments are still
assessment		required.

SECTION 16: Other information

✓ Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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

Not classified.

Full text of abbreviated H statements



SDS no. : 082000

SECTION 16: Other information

₩304 H318 H411	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

Full text of classifications

Asp. Tox. 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Date of printing	: 2022/10/07
Date of issue/ Date of revision	: 2022/10/07
Date of previous issue	e : 2021/11/12
Version	: 2
Marchael Company and State	

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.