

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

MULTIS COMPLEX EP 2

SDS no. 30935

2

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

1.1 Product identifier

Product name

identification

: MULTIS COMPLEX EP 2

Product code Product description Product type Other means of

: Not available.

: 30935

: Solid.

: Not available.

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

Identified uses	
└ubricating grease	
Uses advised against	

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



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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition

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

: Mixture

Not classified.

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements		
Signal word		No signal word.
Hazard statements		No signal word. No known significant effects or critical hazards.
Precautionary statements	1	No known significant effects of childa hazards.
Prevention		Not applicable.
Response		Not applicable.
		Not applicable.
Storage Disposal		Not applicable.
Supplemental label elements	1	Contains Naphthenic acids, zinc salts. 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	:	None known.

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Туре	
dílithium azelate	REACH #: 01-2120119814-57 EC: 254-184-4 CAS: 38900-29-7	≤3	Acute Tox. 4, H302	[1]	
1-Propene, 2-methyl-, sulfurized	EC: 270-943-2 CAS: 68511-50-2	≤3	Aquatic Chronic 4, H413	[1]	
Phosphorodithioic acid, mixed O, O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	REACH #: 01-2119948548-22 EC: 270-478-5	<2.5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2,	[1]	

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2023/05/10		••••••••••••••••••••••••••••••••••••••		



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	CAS: 68442-22-8		H411	
methyl-1H-benzotriazole	REACH #: 01-2119979081-35 EC: 249-596-6 CAS: 29385-43-1	<1	Acute Tox. 4, H302 Eye Irrit. 2, H319 Repr. 2, H361d Aquatic Chronic 2, H411	[1]
Naphthenic acids, zinc salts	REACH #: 01-2120783834-41 EC: 234-409-2 CAS: 12001-85-3	<1	Eye Irrit. 2, H319 Skin Sens. 1B, H317 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 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.

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.
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	: \overline{M} o 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	<u>/symptoms</u>
Eye contact	: 📈 specific data.
Inhalation	: 📈 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

: **F**reat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.



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SECTION 4: First aid	h n	neasures
Specific treatments		No specific treatment.
SECTION 5: Firefigh	tin	g measures
5.1 Extinguishing media		
Suitable extinguishing media	:	<mark>I</mark> ∕se dry chemical, _{CO₂} , water spray (fog) or foam.
Unsuitable extinguishing media	:	₽ o not use water jet.
5.2 Special hazards arising	fron	n the substance or mixture
Hazards from the substance or mixture	-	No specific fire or explosion hazard.
Hazardous combustion products	:	carbon monoxide carbon dioxide Silicon 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: Accidental release measures

6.1 Personal precautions, pro	ote	ctive 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	:	Void 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	cc	ontainment and cleaning up

Small spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.



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SECTION 6: Accidental release measures

Large spill	: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. 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	: Fut 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 solutions	: Not available.

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.

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. 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
dilithium azelate	DNEL	Long term Dermal	0.172 mg/ cm ²	Workers	Local
	DNEL	Long term Dermal	0.023 mg/ cm²	General population	Local
	DNEL	Long term Dermal	0.023 mg/ cm ²	General population	Local
Phosphorodithioic acid, mixed O,O- bis(2-ethylhexyl and iso-Bu) esters, zinc salts	DNEL	Long term Oral	0.24 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.98 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	5.71 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	8.05 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	11.4 mg/ kg bw/day	Workers	Systemic
Naphthenic acids, zinc salts	DNEL	Long term Oral	0.17 ng/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	290 µg/m³	General population	Systemic
	DNEL	Long term Inhalation	1.18 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	3.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.17 ng/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.29 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	1.18 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1.7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.3 mg/kg bw/day	Workers	Systemic

PNECs

Product/substance	Compartment Detail	Value	Method Detail
dilithium azelate	Fresh water	0.023 mg/l	-
	Marine water	0.0023 mg/l	-
Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu) esters, zinc salts	Fresh water	0.004 mg/l	-
	Marine water	0.0046 mg/l	-
	Fresh water sediment	0.04508 mg/kg dwt	-
	Marine water sediment	0.005 mg/kg dwt	-
	Soil	0.007 mg/kg dwt	-
	Sewage Treatment Plant	100 mg/l	-
	Secondary Poisoning	10.67 mg/kg	-
Naphthenic acids, zinc salts	Fresh water sediment	15.1 to 19438.4 µg/kg dwt	-



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: **SECTION 8: Exposure controls/personal protection** Marine water sediment 1.51 to 1943.84 _ µg/kg dwt . 689.7 μg/l Sewage Treatment _ Plant 4 µg/l 400 ng/l Fresh water

Marine water

8.2 Exposure controls		
Appropriate engineering controls	od general ventilation shountaminants.	Ild be sufficient to control worker exposure to airborne
Individual protection meas		
Hygiene measures	fore eating, smoking and u propriate techniques shoul	ace thoroughly after handling chemical products, sing the lavatory and at the end of the working period. d be used to remove potentially contaminated clothing. before reusing. Ensure that eyewash stations and he workstation location.
Eye/face protection	case of contact through sp	ashing: safety glasses with side-shields, EN 166.
Skin protection		
Hand protection		is gloves complying with an approved standard should idling chemical products if a risk assessment indicates
	ich are provided by the sup ecific local conditions unde is, abrasion, and the conta- case of prolonged contact mplying with ISO 21420 an nutes and having a thickne ly. The level of protection is aracteristics, its resistance its use and its replacement	with the product, it is recommended to wear gloves d EN 374 standards, protecting at least for 480 ss of 0,38 mm at least. These values are indicative s provided by the material of the glove, its technical to the chemicals to be handled, the appropriateness frequency
Body protection		nt for the body should be selected based on the task involved and should be approved by a specialist
Other skin protection		additional skin protection measures should be bing performed and the risks involved and should be re handling this product.
Respiratory protection		itions. If these are not sufficient to maintain exposure ratory protection must be worn (Type A/P1).
Environmental exposure controls	sure they comply with the r some cases, fume scrubbe	work process equipment should be checked to equirements of environmental protection legislation. ers, filters or engineering modifications to the process to reduce emissions to acceptable levels.



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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

9.1 Information on basic physica	l a	nd chemical properties	
<u>Appearance</u>			
Physical state	:	Solid.	
Colour	:	Red.	
Odour	:	Characteristic.	
Odour threshold	:	Not available.	
Melting point/freezing point	1	<mark>≯</mark> 250°C	
Initial boiling point and boiling range	:	Fechnically not possible to measur	e
Flammability (solid, gas)	:	Yes.	
Upper/lower flammability or explosive limits	:	Not applicable.	
Flash point	:	Not applicable.	
Auto-ignition temperature	:	Not applicable.	
Decomposition temperature	:	▶250°C	
рН	:	Not applicable.	Product is non-soluble (in water).
Viscosity	:	Kinematic (40°C): Not applicable.	
Solubility(ies)	:		
Media		Result	
Water		Not soluble	
Miscible with water	:	No.	
Partition coefficient: n-octanol/ water	:	▶3.5	
Vapour pressure	:	Not applicable.	
Relative density	1	0.9	
Density	:	Ø.9 g/cm³ [20°C (68°F)]	
Vapour density	:	Not applicable.	
Particle characteristics			
Median particle size	4	Not available.	

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	: 🗹 nder normal conditions of storage and use, hazardous reactions will not occur.			



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SECTION 10: Stability and reactivity

10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: Strong oxidising agents
10.6 Hazardous decomposition products	: carbon monoxide carbon dioxide Silicon 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
dilithium azelate	LD50 Dermal	Rat	>2000 mg/kg	-	-
	LD50 Oral	Rat	301 mg/kg	-	-
1-Propene, 2-methyl-, sulfurized	LD50 Oral	Rat	8.6 g/kg	-	-
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	LD50 Dermal	Rabbit	>2000 mg/kg	-	OECD 402 Acute Dermal Toxicity
	LD50 Oral	Rat	>2000 mg/kg	-	EPA
Naphthenic acids, zinc salts	LD50 Dermal	Rabbit	2500 mg/kg	-	-
	LD50 Oral	Mouse - Female	>2000 mg/kg	-	OECD 401
	LD50 Oral	Rat	4920 mg/kg	-	-

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)
MULTIS COMPLEX EP 2	12863.2	N/A	N/A	N/A	N/A
dilithium azelate	301	N/A	N/A	N/A	N/A
1-Propene, 2-methyl-, sulfurized Naphthenic acids, zinc salts	8600 4920	N/A 2500	N/A N/A	N/A N/A	N/A N/A

Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
hosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Irritant	Rabbit	-	-	OECD 404 Acute Dermal Irritation/ Corrosion
Naphthenic acids, zinc salts	Skin - Mild irritant	Rabbit	-	0.5 MI	-



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SECTION 11: Toxicological information Skin - Mild irritant Rabbit 24 hours 500 -mg **Conclusion/Summary** Skin : Based on available data, the classification criteria are not met. **Eyes** ŝ, 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 Based on available data, the classification criteria are not met. Respiratory ÷. **Sensitisation Product/substance Route of** Result **Species** exposure hosphorodithioic acid, skin Guinea pig Not sensitizing mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts Naphthenic acids, zinc salts skin Human Sensitising Conclusion/Summary t Skin Based on available data, the classification criteria are not met. Contains sensitizer. May produce an allergic reaction. Based on available data, the classification criteria are not met. Respiratory **Mutagenicity Product/substance** Test Experiment Result **OECD 471 Bacterial** Phosphorodithioic acid, Experiment: In vitro Negative mixed O,O-bis(2-ethylhexyl **Reverse Mutation Test** Subject: Bacteria and iso-Bu) esters, zinc salts Cell: Somatic OECD 476 In vitro Experiment: In vitro Negative Mammalian Cell Gene Subject: Mammalian-Animal **Mutation Test OECD 474 Mammalian** Experiment: In vivo Negative Subject: Mammalian-Animal Erythrocyte **Micronucleus Test** Cell: Somatic **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 Fertility Developmental Exposure Species** Dose toxicity toxin Phosphorodithioic acid, Negative Negative Negative Rat Oral: 160 mixed O,O-bis(2-ethylhexyl mg/kg and iso-Bu) esters, zinc salts NOAEL : Based on available data, the classification criteria are not met. **Conclusion/Summary Teratogenicity** Conclusion/Summary : Based on available data, the classification criteria are not met. Specific target organ toxicity (single exposure) Not available. Conclusion/Summary : Based on available data, the classification criteria are not met. Specific target organ toxicity (repeated exposure)



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SECTION 11: Toxicological information

SECTION IT. TOXICOI	ogical information			
Not available.				
Conclusion/Summary Aspiration hazard Not available.	: B ased on available data,	the classification	criteria are not met.	
Conclusion/Summary	: B ased on available data,	the classification	criteria are not met.	
Information on likely routes of exposure	: Not available.			
Potential acute health effects	<u>i</u>			
Eye contact	: No known significant effe	cts or critical haza	ards.	
Inhalation	: 📈 known significant effe	cts or critical haza	ards.	
Skin contact	: Defatting to the skin. Mag	y cause skin dryn	ess and irritation.	
Ingestion	: No known significant effe	cts or critical haza	ards.	
Symptoms related to the phy	sical, chemical and toxicol	ogical character	<u>stics</u>	
Eye contact	: 🕅 specific data.			
Inhalation	: No specific data.			
Skin contact	 <i>K</i>dverse symptoms may i irritation dryness cracking 	nclude the followi	ng:	
Ingestion	: No specific data.			
Delayed and immediate effec	ts as well as chronic effect	s from short and	l long-term exposu	<u>·e</u>
<u>Short term exposure</u>				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
<u>Long term exposure</u>				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Potential chronic health effe	<u>ects</u>			
Product/substance	Result	Species	Dose	Exposure
hosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	Sub-acute NOAEL Oral	Rat	160 mg/kg	-
Conclusion/Summary	: Not available.			•
General	: No known significant effe	cts or critical haza	ards.	
Carcinogonicity	No known significant offo			

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

11.2 Information on other hazards



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SECTION 11: Toxicological information

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

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
dilithium azelate	Acute LC50 >100 mg/l	Algae	72 hours	-
	Acute LC50 >100 mg/l	Daphnia	48 hours	-
1-Propene, 2-methyl-, sulfurized	Acute EC50 >100 mg/l	Algae	72 hours	-
	Acute EC50 1000 mg/l	Daphnia	48 hours	-
	Acute LC50 1000 mg/l	Fish	96 hours	-
Phosphorodithioic acid,	Acute EC50 24 mg/l	Algae - Scenedesmus	72 hours	OECD 201
mixed O,O-bis(2-ethylhexyl	C C	subspicatus		
and iso-Bu) esters, zinc salts				
,	Acute EC50 23 mg/l	Daphnia - Daphnia Magna	48 hours	OECD 202
	Acute LC50 4.5 mg/l	Fish	96 hours	-
	Acute NOEC 0.4 mg/l	Daphnia - Daphnia Magna	21 days	-
Naphthenic acids, zinc salts	Acute EC50 4 mg/l	Algae -	72 hours	OECD 201
	_	Pseudokirchneriella		
		subcapitata		
	Acute EC50 100 mg/l	Daphnia - Daphnia magna	48 hours	-
	Acute LC50 92 ppm Fresh	Fish - Lepomis	96 hours	US EPA
	water	macrochirus		
	Chronic NOEC 1 mg/l	Algae -	72 hours	OECD 201
		Pseudokirchneriella		
		subcapitata		

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

Conclusion/Summary	: Not available.		
Product/substance	Aquatic half-life	Photolysis	Biodegradability
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	-	-	Not readily
Naphthenic acids, zinc salts	-	-	Not readily

12.3 Bioaccumulative potential

Product/substance	LogPow	BCF	Potential
MULTIS COMPLEX EP 2	>3.5	-	low
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	1.67	-	low
Naphthenic acids, zinc salts	1.89 to 11.15	-	high



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SECTION 12: Ecological information

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 has no 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	
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	: 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: 12 01 12*
Packaging	
Methods of disposal	: The generation 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	: This 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.



SDS no. 1

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

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



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Seveso Directive

This product is not controlled under the Seveso Directive.

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.

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

- Australia inventory (AIIC) Canada inventory
- China inventory (IECSC)
- **Europe inventory**
- Japan inventory

New Zealand Inventory of Chemicals (NZIoC) Philippines inventory (PICCS)

Korea inventory (KECI)

Taiwan Chemical Substances Inventory (TCSI)

Thailand inventory

Turkey inventory

United States inventory (TSCA 8b)

Vietnam inventory

- : All components are listed or exempted.
- : Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): Not determined.
- : At least one component is not listed.
- : All components are listed or exempted.
- : All components are listed or exempted.
- : All components are listed or exempted.
- : Not determined.
- : Not determined.
- : All components are listed or exempted.
- : Not determined.



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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	: Risk management measures and safety conditions of use are included in the relevant sections of the SDS						
SECTION 16: Othe	SECTION 16: Other information						
Indicates information th	at 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

Not classified.

2023/05/10

Full text of abbreviated H statements

H 302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications

Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 4 Eye Dam. 1 Eye Irrit. 2 Skin Irrit. 2	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category LONG-TERM (CHRONIC) AQUATIC HAZARD - Category SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2			
Skin Sens. 1B	SKIN SENSITISATION - Category 1B			
Date of printing	: 2023/05/10			
Date of issue/ Date of revision	: 2023/05/10			
Date of previous issue	e : 2022/06/30			
Date of revision :	Version : 3	United Kingdom (UK)	ENGLISH	16/17



SDS no. 30935 :

SECTION 16: Other information

Version

: 3

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.