



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

TRAXIUM GEAR 9 FE 75W-90

SDS no. 090683

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

1.1 Product identifier

Product name : TRAXIUM GEAR 9 FE 75W-90

Product code : 090683

Product description : Not available.

Product type : Liquid.

Other means of : Not available.

identification

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 : National Poisons Information Service (NPIS): 111

Supplier

Telephone number: Emergency telephone: +44 1235 239670

Hours of operation : Edit the content of sentence <GB Telephone Number - Supplier - Hours of

operation> to define this output

Information limitations : Edit the content of sentence <GB Telephone Number - Supplier - Information

limitations> to define this output

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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]

Aquatic Chronic 2, H411

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements

Hazard pictograms



Signal word No signal word.

Hazard statements H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

: P273 - Avoid release to the environment. **Prevention**

Response : P391 - Collect spillage.

Storage : Not applicable.

: P501 - Dispose of contents and container in accordance with all local, regional, **Disposal**

national and international regulations.

Supplemental label

elements

: Contains 1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)- and Amines,

C10-14-tert-alkyl. May produce an allergic reaction.

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 contains substances that are assessed to be a PBT or a vPvB, refer to

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 : Hazard of slipping on spilt product.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Туре
1,3,4-Thiadiazole-2(3H)-thione, 5- (tert-dodecyldithio)-	REACH #: 01-2120761104-64 EC: 813-543-0 CAS: 73984-93-7	<1	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]
Phosphorodithioic acid, mixed O, O-di(2-ethylhexyl, isobutyl, isopropyl)-5-(3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-5-yl) and6-yl) esters	REACH #: 01-0000015167-71 CAS: 255881-94-8 Index: 015-146-00-0	≤1	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	[1]
Amines, C10-14-tert-alkyl	REACH #: 01-2119456798-18 EC: 701-175-2	<1	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
2,2'-(octadec-9-enylimino) bisethanol	REACH #: 01-2119510876-35 EC: 246-807-3 CAS: 25307-17-9	<0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) See Section 16 for the full text of the H statements declared above.	[1]

Additional information

: The product is made from synthetic base oils

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

[1] 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 measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation
Skin contact

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

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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SECTION 4: First aid measures

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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 : No specific data.
Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

discharged to any waterway, sewer or drain.

Hazardous combustion

products

: carbon monoxide carbon dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans

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.

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SECTION 5: Firefighting measures

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, 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 spilt material. Put on appropriate personal protective equipment.

For emergency responders

If specialised 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 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material 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. Approach the release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilt product. 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

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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SECTION 7: Handling and storage

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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold	
E2	200 tonne	500 tonne	

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.

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 DNELs/DMELs

: No known significant effects or critical hazards.

Product/substance	Type	Exposure	Value	Population	Effects
1,3,4-Thiadiazole-2(3H)-thione, 5- (tert-dodecyldithio)-	DNEL	Long term Dermal	830 µg/kg bw/day	Workers	Systemic
,	DNEL	Long term Inhalation	2.93 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	420 μg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	420 μg/kg bw/day	General population	Systemic
	DNEL	Long term	730 mg/m ³	General	Systemic

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ure controls/personal protection

SECTION 8: Exposure cont	rols/p	ersonal prote	ction		
		Inhalation		population	
	DNEL	Long term Oral	0.42 mg/	General	Systemic
			kg bw/day	population	- ,
	DNEL	Long term Dermal	0.42 mg/	General	Systemic
	D.11	Long tom Bonna	kg bw/day	population	Cycleniic
	DNEL	Long term	0.73 mg/m ³		Systemic
	DIVLL	Inhalation	0.7 0 mg/m	population	Cyclonic
	DNEL	Long term Dermal	0.83 mg/	Workers	Systemic
	D.11	Long tom Bonna	kg bw/day	TT GIRGIG	Cycle.iiic
	DNEL	Long term	2.93 mg/m ³	Workers	Systemic
		Inhalation	g,		-,
S-(tricyclo(5.2.1.02,6)deca-3-en-8	DNEL	Long term	710 µg/m³	Workers	Systemic
(or 9)-yl O-(isopropyl or isobutyl or		Inhalation			-,
2-ethylhexyl) O-(isopropyl or isobutyl		minadion			
or 2-ethylhexyl) phosphorodithioate					
or 2 daily mexyly phosphiore diamedia	DNEL	Long term	170 μg/m³	General	Systemic
		Inhalation		population	= , =
	DNEL	Long term Dermal	200 µg/kg	Workers	Systemic
			bw/day	· -	, · · · · · ·
	DNEL	Long term Dermal	100 µg/kg	General	Systemic
			bw/day	population	- ,
	DNEL	Long term Oral	100 µg/kg	General	Systemic
	D.11	Long tonii orai	bw/day	population	Cycle.iiic
	DNEL	Long term Oral	0.1 mg/kg	General	Systemic
	D.11	Long tonii orai	bw/day	population	C you canno
	DNEL	Long term Dermal	0.1 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	0.17 mg/m ³		Systemic
		Inhalation	• · · · · · · · · · · · · · · · · · · ·	population	- y - t - t - t - t - t - t - t - t - t
	DNEL	Long term Dermal	0.2 mg/kg	Workers	Systemic
			bw/day		- ,
	DNEL	Long term	0.71 mg/m ³	Workers	Systemic
		Inhalation	•g,		- y - t - t - t - t - t - t - t - t - t
Amines, C10-14-tert-alkyl	DNEL	Long term	12.5 mg/m ³	Workers	Systemic
		Inhalation	g		-,
	DNEL	Long term	12.1 mg/m ³	Workers	Local
	-	Inhalation	٠٠٠٠	· · -	
	DNEL	Long term	2.5 mg/m ³	General	Systemic
		Inhalation	5	population	
	DNEL	Long term	1.2 mg/m ³	General	Local
	•	Inhalation	J.	population	
	DNEL	Long term Oral	0.35 mg/	General	Systemic
		J	kg bw/day	population	,
2,2'-(octadec-9-enylimino)bisethanol	DNEL	Long term Dermal	0.3 mg/kg	Workers	Systemic
			bw/day		-
	DNEL	Long term	2.112 mg/	Workers	Systemic
		Inhalation	m³		-
	DNEL	Long term Oral	0.15 mg/	General	Systemic
			kg bw/day	population	=
	DNEL	Long term Dermal	0.15 mg/	General	Systemic
			kg bw/day	population	=
	DNEL	Long term	0.522 mg/	General	Systemic
		Inhalation	m³	population	•
		<u> </u>		•	

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SECTION 8: Exposure controls/personal protection

Product/substance	Compartment Detail	Value	Method Detail
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-	Fresh water	40 μg/l	-
	Marine water	4 μg/l	-
	Fresh water sediment	989.6 mg/kg dwt	-
	Marine water sediment	98.96 mg/kg dwt	-
	Soil	516.08 mg/kg dwt	-
	Sewage Treatment Plant	8000 mg/l	-
S-(tricyclo(5.2.1.02,6)deca-3-en-8(or 9)-yl O- (isopropyl or isobutyl or 2-ethylhexyl) O- (isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	Fresh water	36 ng/l	-
	Marine water	3.6 ng/l	-
	Sewage Treatment Plant	100 mg/l	-
	Fresh water sediment	850 µg/kg dwt	-
	Marine water sediment	85 µg/kg dwt	-
	Soil	445 µg/kg dwt	-
	Secondary Poisoning	66.6 mg/kg dwt	-
Amines, C10-14-tert-alkyl	Fresh water	0.001 mg/l	-
	Marine water	0.0001 mg/l	-
	Fresh water sediment	2.14 mg/kg dwt	-
	Marine water sediment	0.214 mg/kg dwt	-
	Soil	0.428 mg/kg dwt	-
	Sewage Treatment Plant	0.635 mg/l	-
2,2'-(octadec-9-enylimino)bisethanol	Fresh water	0.000214 mg/l	-
	Marine water	0.00087 mg/l	-
	Fresh water sediment	1.692 mg/kg dwt	-
	Marine water sediment	0.1692 mg/kg dwt	-
	Soil	5 mg/kg	-
	Sewage Treatment Plant	1.5 mg/l	-
	Secondary Poisoning	2 mg/kg	-

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

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SECTION 8: Exposure controls/personal 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

nitrile rubber butyl 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

: Technically not possible to measure

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [Clear]

Colour : Yellow.

Odour : Characteristic.
Odour threshold : Not available.

Melting point/freezing point

Initial boiling point and : >316°C (>600.8°F) [ISO 3405]

boiling range

Flammability (solid, gas) : Not applicable.

Upper/lower flammability or : Not available.

explosive limits

Flash point : Open cup: 223°C (433.4°F) [ASTM D 92]

Auto-ignition temperature: Not available.

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SECTION 9: Physical and chemical properties

Decomposition temperature: Not available.

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

Viscosity : Kinematic (40°C): 96.5 mm²/s [ISO 3104]

Solubility(ies) :

MediaResultwaterNot soluble

Solubility in water : Not available.

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure : Not applicable. **Relative density** : 0.84 [DIN 51757]

Density : 0.84 g/cm³ [15°C (59°F)] [DIN 51757]

Vapour density : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

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 : No specific data.

10.6 Hazardous decomposition products

: carbon monoxide carbon dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans

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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
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-	LC50 Inhalation Dusts and mists	Rat	620 mg/m³	4 hours	-
	LD50 Dermal	Rabbit	2000 mg/kg	-	-
	LD50 Oral	Rat	6176 mg/kg	-	-
Phosphorodithioic acid, mixed O,O-di(2-ethylhexyl, isobutyl, isopropyl)-5-(3a, 4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-5-yl) and6-yl) esters	LD50 Oral	Rat	>5000 mg/kg	-	420
Amines, C10-14-tert-alkyl	LC50 Inhalation Vapour	Rat	1.19 mg/l	4 hours	OECD 403
	LC50 Inhalation Vapour	Rat	157 to 231 ppm	4 hours	-
	LD50 Dermal	Rabbit	251 mg/kg	-	-
	LD50 Oral	Rat	612 mg/kg	-	OECD 401
2,2'-(octadec-9-enylimino) bisethanol	LD50 Oral	Rat	1260 mg/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)
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-	6176	N/A	N/A	N/A	N/A
Amines, C10-14-tert-alkyl 2,2'-(octadec-9-enylimino)bisethanol	612 1260	251 N/A	N/A N/A	1.19 N/A	N/A 5.1

Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
2,2'-(octadec-9-enylimino) bisethanol	Skin - Oedema	Rabbit	4	-	OECD 404 Acute Dermal Irritation/ Corrosion

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.

Sensitisation

Product/substance	Route of exposure	Species	Result
Amines, C10-14-tert-alkyl 2,2'-(octadec-9-enylimino) bisethanol	skin	Guinea pig	Sensitising
	skin	Guinea pig	Not sensitizing

Conclusion/Summary

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SECTION 11: Toxicological information

Skin

: 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 Contains sensitiser May produce an allergic reaction.

Respiratory

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

Mutagenicity

Product/substance	Test	Experiment	Result
2,2'-(octadec-9-enylimino) bisethanol	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Human	Negative

Conclusion/Summary

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

Carcinogenicity

Conclusion/Summary

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

Reproductive toxicity

Product/substance	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
2,2'-(octadec-9-enylimino) bisethanol	-	Negative	Negative	Rat	Oral	-

Conclusion/Summary

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

Teratogenicity

Product/substance	Result	Species	Dose	Exposure
2,2'-(octadec-9-enylimino) bisethanol	Negative - Oral	Rat	-	1

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)

Not available.

Conclusion/Summary

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

Aspiration hazard

Not available.

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

Information on likely routes

Conclusion/Summary

of exposure

: Not available.

Potential acute health effects

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SECTION 11: Toxicological information

Eye contact
 Inhalation
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 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 : No specific data.

Ingestion : No specific data.

Delayed and immediate effects as well as 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
2,2'-(octadec-9-enylimino)	Sub-chronic NOAEL Oral	Rat	30 mg/kg	-
biodition in the state of the s	Sub-acute NOAEL Oral	Rat	30 mg/kg	-

Conclusion/Summary: Not available.

General : No known significant effects or critical hazards.
 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

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

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SECTION 12: Ecological information

Harmful to aquatic life with long lasting effects.

12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-	Acute EC10 100 mg/l	Algae	72 hours	-
,	Acute EC50 100 mg/l	Algae	72 hours	-
	Acute EC50 41 mg/l	Daphnia	48 hours	-
Phosphorodithioic acid, mixed O,O-di(2-ethylhexyl, isobutyl, isopropyl)-5-(3a,	Acute EC50 >0.23 mg/l	Algae	72 hours	201
4,5,6,7,7a-hexahydro-				
4,7-methano-1H-inden-5-yl) and6-yl) esters				
,	Acute EC50 >0.077 mg/l	Daphnia	48 hours	202
	Chronic NOEC 0.23 mg/l	Algae	72 hours	201
	Chronic NOEC 0.002 mg/l	Daphnia	21 days	211
Amines, C10-14-tert-alkyl	Acute EC50 0.44 mg/l	Algae - Algae	72 hours	-
_	Acute EC50 0.24 mg/l	Daphnia - Daphnia Magna	48 hours	-
	Acute EC50 63.5 mg/l	Micro-organism	30 minutes	-
	Acute LC50 1.3 mg/l	Fish	96 hours	-
2,2'-(octadec-9-enylimino) bisethanol	Acute EC50 0.0538 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EC50 0.043 mg/l	Daphnia - Daphnia magna	48 hours	OECD 202
	Acute LC50 0.1 mg/l	Fish - Danio rerio	96 hours	OECD 203
	Chronic NOEC 0.6 to 2.1 mg/l	Daphnia - Daphnia magna	21 days	-

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Conclusion/Summary: Not available.

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Amines, C10-14-tert-alkyl	-		Inherent
2,2'-(octadec-9-enylimino)	-	-	Readily
bisethanol			

12.3 Bioaccumulative potential

Product/substance	LogPow	BCF	Potential
S-(tricyclo(5.2.1.02,6)deca- 3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	5.5 to 7.9	1828 to 4388	high
Amines, C10-14-tert-alkyl 2,2'-(octadec-9-enylimino) bisethanol	2.9 6.6	1.91	low low

12.4 Mobility in soil

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SECTION 12: Ecological information

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

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

The classification of the product may meet the criteria for a hazardous waste.

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 06*

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ICAO/IATA
14.1 UN number or ID number	Not regulated.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADN

: The product is only regulated as a dangerous good when transported in tank vessels.

user

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

14.7 Maritime transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture 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.

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SECTION 15: Regulatory information

Annex XVII - Restrictions : Not applicable.

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

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

E2

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

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

Canada inventory : All components are listed or exempted.

China inventory (IECSC) : All components are listed or exempted. **Europe inventory** : All components are listed or exempted.

Japan inventory (CSCL): All components are listed or

exempted.

Japan inventory (ISHL): Not determined.

New Zealand Inventory of Chemicals

(NZIoC)

: All components are listed or exempted.

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

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

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: All components are listed or exempted.

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SECTION 15: Regulatory information

Taiwan Chemical Substances Inventory

(TCSI)

Thailand inventory : Not determined.

Turkey inventory : Not determined.

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

Vietnam inventory : Not determined.

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

15.2 Chemical safety assessment

 This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

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

1272/2008]

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

EUH statement = CLP-specific Hazard statement

N/A = Not available

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

LC50 = Median lethal concentration

LD50 = Median lethal dose

OEL = Occupational Exposure Limit VOC = Volatile Organic Compound

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

Classification	Justification	
Aquatic Chronic 2, H411	Calculation method	

Full text of abbreviated H statements

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications

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SECTION 16: Other information

Acute Tox. 2 ACUTE TOXICITY - Category 2
Acute Tox. 3 ACUTE TOXICITY - Category 3
Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B

Skin Sens. 1A SKIN SENSITISATION - Category 1A Skin Sens. 1B SKIN SENSITISATION - Category 1B

Date of printing : 2022/10/07

Date of issue/ Date of : 2022/10/07

revision

Date of previous issue : No previous validation

Version : 1

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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.

Date of revision: Version: 1 United Kingdom (UK) ENGLISH 19/19