

Safety Data Sheet

FOMTEC LS EXP

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Status ISSUED BY: Fire Protection Technologies

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product name: Fomtec LS EXP

Article no: 11-3112-01

Importer / Supplier: Fire Protection Technologies
Address: Unit 1/251 Ferntree Gully Road
Mt Waverley, Victoria, 3149 Australia.

Telephone Number: 1300 742 296
Emergency Telephone No.: 24 hours 1300 742 296
Emergency Services: Dial 000

SDS Preparer: Fire Protection Technologies

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2. HAZARD IDENTIFICATION

2.1 Classification of substance or mixture

Skin Irrit. 2 H315, Causes skin irritation
Eye Dam. 1; H318, Causes serious eye damage
Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects

2.2 Label elements

Hazard Pictograms (CLP)



Signal word	Danger
Hazard statements	Causes skin irritation Causes serious eye damage Harmful to aquatic life with long lasting effects
Safety statements – Prevention	P264, Wash hands and exposed skin thoroughly after handling. P273, Avoid release to the environment. P280, Wear eye protection / protective gloves / protective clothing.
- Response	P302+P352, IF ON SKIN: Wash with plenty of water and soap. P305+P351+P338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310, Immediately call a POISON CENTRE / DOCTOR. P332+P313, If skin irritation occurs: Get medical advice/attention. P362, Take off contaminated clothing. P391, Collect spillage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Product/Ingredient name	Identifiers	% w/w	Classification	Note
Alcohols, C9-11, branched and linear, ethoxylated, sulfates, ammonium salts	CAS No.: 160901-27-9 EC No.: 500-464-9 REACH No.: 01-2119976273-31-0000	10-15%	Skin Irrit. 2, H315 Eye Dam. 1, H318	
2-butoxyethanol;ethylene glycol monobutyl ether; butyl cellosolve	CAS No.: 111-76-2 EC No.: 203-905-0 Index No.: 603-014-00-0	10-15%	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319	EU
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS No.: 68891-38-3 EC No.: 500-234-8 REACH No.: 01-2119488639-16-0013	5-10%	Skin Irrit. 2, H315 Eye Dam. 1, H318 (SCL: 10.00%) Aquatic Chronic 3, H412	
ethanediol	CAS No.: 107-21-1 EC No.: 203-473-3 REACH No.: 01-2119456816-28 Index No.: 603-027-00-1	5-10%	Acute Tox. 4, H302	EU
2-methylpentane-2,4-diol	CAS No.: 107-41-5 EC No.: 203-489-0 REACH: 01-11953582-35-XXXX Index No.: 603-053-00-3	5-10%	Skin Irrit. 2, H315 Eye Irrit. 2, H319	
Sodium decyl sulphate	CAS No.: 142-87-0 EC No.: 205-568-5 REACH No.: 01-2119970328-30-0004	3-5%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 (SCL: 20.00%) Aquatic Chronic 3, H412	
3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1-amino oxide	EC No.: 939-581-9 REACH: 01-2119978229-22	1-3%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1)	

Dodecan-1-ol	CAS No.: 112-53-8 EC No.: 203-982-0 REACH: 01-2119485976-15-	1-3%	Aquatic Chronic 3, H412 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411
Tetradecanol	CAS No.: 112-72-1 EC No.: 204-000-3 REACH No.: 01-2119485910-33-XXXX	<1%	Eye Irrit. 2, H319 Aquatic Chronic 1, H410 (M=1)

4. FIRST AID MEASURES

4.1 Description of first aid measures

General	In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured persons condition or if the symptoms persist. Never give an unconscious person water or other drink.
Inhalation	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with them.
Skin contact	IF ON SKIN: Wash with plenty of water and soap. Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.
Eye contact	Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.
Ingestion	Provide plenty of water for the person to drink and stay with them. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of, or choking on vomited material.

4.2 Most important symptoms and effects, both acute and delayed

Irritation effects:	This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.
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4.3 Indication of any immediate medical attention and special treatment

If exposed or concerned:	Get immediate medical advice/attention.
Information to medics:	Bring this safety data sheet or the label from this product

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media

This product is not flammable

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service in order to obtain further advice.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

6.2 Environmental precautions

Avoid discharge to lakes, streams, sewers etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3 Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials and dispose of it in accordance with the regulations on dangerous waste.

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

7.2 Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material	Always store in containers of the same material as the original container.
Storage temperature	Dry, cool and well ventilated (<55°C)
Incompatible materials	Strong acids, strong bases, strong oxidizing agents and strong reducing agents

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

2-butoxyethanol;ethylene glycol monobutyl ether; butyl cellosolve	<p>Long term exposure limit (8 hours) (ppm): 25 Long term exposure limit (8 hours) (mg/m³): 123 Short term exposure limit (15 minutes) (ppm): 50 Short term exposure limit (15 minutes) (mg/m³): 246</p>
ethanediol	<p>Long term exposure limit (8 hours) (ppm): 20 (vapour) Long term exposure limit (8 hours) (mg/m³): 10 (particulate)/52(vapour) Short term exposure limit (15 minutes) (ppm): 40 (vapour) Short term exposure limit (15 minutes) (mg/m³): 104 (vapour)</p>
2-methylpentane-2,4-diol	<p>Long term exposure limit (8 hours) (ppm): 25 Long term exposure limit (8 hours) (mg/m³): 123 Short term exposure limit (15 minutes) (ppm): 25 Short term exposure limit (15 minutes) (mg/m³): 123</p>

DNEL

Alcohols, C9-11, branched and linear, ethoxylated, sulfates, ammonium salts	<p>DNEL: 1650 mg/kg/day Route of exposure: Dermal Duration: Long term – Systemic effects – General population</p>
	<p>DNEL: 52 mg/m³ Route of exposure: Inhalation Duration: Long term – Systemic effects – General population</p>
	<p>DNEL: 15 mg/kg/day Route of exposure: Oral Duration: Long term – Systemic effects – General population</p>
	<p>DNEL: 2750 mg/kg/day Route of exposure: Dermal Duration: Long term – Systemic effects – Workers</p>
2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve	<p>DNEL: 175 mg/cm³ Route of exposure: Inhalation Duration: Long term – Systemic effects – Workers</p>
	<p>DNEL: 6.3 mg/kg Route of exposure: Oral Duration: Long term</p>
	<p>DNEL: 59 mg/m³ Route of exposure: Inhalation Duration: Long term – Systemic effects – General population</p>
	<p>DNEL: 75 mg/kg Route of exposure: Dermal</p>

Duration: Long term – Systemic effects – General population

DNEL: 147 mg/m³

Route of exposure: Inhalation

Duration: Short term – Local effects – General population

DNEL: 26.7 mg/kg

Route of exposure: Oral

Duration: Short term – Systemic effects – General population

DNEL: 426 mg/m³

Route of exposure: Inhalation

Duration: Short term – Systemic effects – General population

DNEL: 98 mg/kg

Route of exposure: Inhalation

Duration: Long term – Systemic effects – Workers

DNEL: 125 mg/kg

Route of exposure: Dermal

Duration: Long term – Systemic effects – Workers

DNEL: 246 mg/m³

Route of exposure: Inhalation

Duration: Short term – Local effects – Workers

DNEL: 1091 mg/m³

Route of exposure: Inhalation

Duration: Short term – Systemic effects – Workers

DNEL: 89 mg/kg

Route of exposure: Dermal

Duration: Short term – Systemic effects – Workers

ethanediol

DNEL: 35 mg/m³

Route of exposure: Inhalation

Duration: Long term – Local effects – Workers

DNEL: 7 mg/m³

Route of exposure: Inhalation

Duration: Long term – Local effects – General population

DNEL: 106 mg/kg

Route of exposure: Dermal

Duration: Long term – Systemic effects – Workers

DNEL: 53 mg/kg

Route of exposure: Dermal

Duration: Long term – Systemic effects – General population

2-methylpentane-2,4-diol

DNEL: 98 mg/m³

Route of exposure: Inhalation

Duration: Short term – Local effects – Workers

DNEL: 2 mg/kg

Route of exposure: Dermal

Duration: Long term – Systemic effects – Workers

DNEL: 14 mg/m³

Route of exposure: Inhalation

	<p>Duration: Long term – Systemic effects – Workers</p> <p>DNEL: 49 mg/m³</p> <p>Route of exposure: Inhalation</p> <p>Duration: Long term – Local effects – Workers</p>
	<p>DNEL: 49 mg/m³</p> <p>Route of exposure: Inhalation</p> <p>Duration: Short term – Local effects – General population</p>
	<p>DNEL: 3.5 mg/m³</p> <p>Route of exposure: Inhalation</p> <p>Duration: Long term – Systemic effects – General population</p>
	<p>DNEL: 1 mg/kg</p> <p>Route of exposure: Oral</p> <p>Duration: Long term – Systemic effects – General population</p>
	<p>DNEL: 1 mg/m³</p> <p>Route of exposure: Dermal</p> <p>Duration: Long term – Systemic effects – General population</p>
	<p>DNEL: 25 mg/m³</p> <p>Route of exposure: Inhalation</p> <p>Duration: Long term – Local effects – General population</p>
Sodium decyl sulphate	<p>DNEL: 4060 mg/kg</p> <p>Route of exposure: Dermal</p> <p>Duration: Short term – systemic effects – Workers</p>
	<p>DNEL: 285 mg/m³</p> <p>Route of exposure: Inhalation</p> <p>Duration: Short term – Systemic effects – Workers</p>
	<p>DNEL: 2440 mg/kg</p> <p>Route of exposure: Dermal</p> <p>Duration: Long term – Systemic effects – General population</p>
	<p>DNEL: 85 mg/m³</p> <p>Route of exposure: Inhalation</p> <p>Duration: Long term – Systemic effects – General population</p>
	<p>DNEL: 85 mg/m³</p> <p>Route of exposure: Inhalation</p> <p>Duration: Long term – Systemic effects – General population</p>
	<p>DNEL: 24 mg/kg</p> <p>Route of exposure: Oral</p> <p>Duration: Long term – Systemic effects – General population</p>
3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1 – amino oxide	<p>DNEL: 3.52 mg/m³</p> <p>Route of exposure: Inhalation</p> <p>Duration: Long term – Systemic effects – Workers</p>
	<p>DNEL: 5 mg/kg</p> <p>Route of exposure: Oral</p> <p>Duration: Long term – Systemic effects – Workers</p>
	<p>DNEL: 0.87 mg</p> <p>Route of exposure: Inhalation</p>

	<p>Duration: Long term – Systemic effects – General population</p> <p>DNEL: 2.5 mg/kg Route of exposure: Dermal Duration: Long term – Systemic effects – General population</p> <p>DNEL: 0.05 mg/kg Route of exposure: Oral Duration: Long term – Systemic effects – General population</p>
Dodecan-1-ol	<p>DNEL: 125 mg/kg Route of exposure: Dermal Duration: Short term</p> <p>DNEL: 220 mg/m³ Route of exposure: Inhalation Duration: Short term</p> <p>DNEL: 125 mg/kg Route of exposure: Dermal Duration: Long term</p> <p>DNEL: 220 mg/m³ Route of exposure: Inhalation Duration: Long term</p>
Tetradecanol	<p>DNEL: 125 mg/kg Route of exposure: Dermal Duration: Short term</p> <p>DNEL: 220 mg/m³ Route of exposure: Inhalation Duration: Short term</p> <p>DNEL: 125 mg/kg Route of exposure: Dermal Duration: Long term</p> <p>DNEL: 220 mg/m³ Route of exposure: Inhalation Duration: Long term</p>
PNEC Alcohols, C9-11, branched and linear, ethoxylated, sulfates, ammonium salts	<p>PNEC: 0.106 mg/l Route of exposure: Freshwater</p> <p>PNEC: 0.0106 mg/l Route of exposure: Marine water</p> <p>PNEC: 0.384 mg/kg Route of exposure: Freshwater sediment</p> <p>PNEC: 0.0384 mg/kg Route of exposure: Marine water sediment</p>
2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve	<p>PNEC: 10000 mg/l Route of exposure: Sewage treatment plant</p> <p>PNEC: 8.8 mg/l Route of exposure: Freshwater</p>

	<p>PNEC: 0.88 mg/l Route of exposure: Marine water</p>
	<p>PNEC: 9.1 mg/l Route of exposure: Intermittent release</p>
	<p>PNEC: 34.6 mg/kg Route of exposure: Freshwater sediment</p>
	<p>PNEC: 3.46 mg/kg Route of exposure: Marine water sediment</p>
ethanediol	<p>PNEC: 2.33 mg/kg Route of exposure: Soil PNEC: 1.53 mg/kg Route of exposure: Soil</p>
	<p>PNEC: 10 mg/l Route of exposure: Freshwater</p>
	<p>PNEC: 1 mg/l Route of exposure: Marine water</p>
	<p>PNEC: 3.7 mg/kg Route of exposure: Marine water sediment</p>
2-methylpentane-2,4 diol	<p>PNEC: 37 mg/kg Route of exposure: Freshwater sediment PNEC: 0.429 mg/l Route of exposure: Freshwater</p>
	<p>PNEC: 0.0429 mg/l Route of exposure: Marine water</p>
	<p>PNEC: 1.79 mg/kg Route of exposure: Freshwater sediment</p>
	<p>PNEC: 0.179 mg/kg Route of exposure: Marine water sediment</p>
	<p>PNEC: 0.11 mg/kg Route of exposure: Soil</p>
Sodium decyl sulphate	<p>PNEC: 20 mg/l Route of exposure: Sewage treatment plant PNEC: 0.095 mg/l Route of exposure: Freshwater</p>
	<p>PNEC: 0.0095 mg/l Route of exposure: Marine water</p>
	<p>PNEC: 1.5 mg/kg Route of exposure: Freshwater sediment</p>
	<p>PNEC: 0.15 mg/kg Route of exposure: Marine water sediment</p>
	<p>PNEC: 0.2445 mg/kg Route of exposure: Soil</p>

3-C12-18-(even numbered)-alkylamido-N,N-dimethylpropan-1 – amino oxide	<p>PNEC: 0.086 mg/l Route of exposure: Intermittent release</p> <p>PNEC: 0.0214 mg/kg Route of exposure: Marine water sediment</p>
Dodecan-1-ol	<p>PNEC: 0.025 PPM Route of exposure: Soil</p> <p>PNEC: 0.0028 mg/l Route of exposure: Freshwater</p> <p>PNEC: 0.00028 mg/l Route of exposure: Marine water</p> <p>PNEC: 1.1 mg/kg Route of exposure: Freshwater sediment</p>
Tetradecanol	<p>PNEC: 0.11 mg/kg Route of exposure: Marine water sediment</p> <p>PNEC: 0.0032 mg/l Route of exposure: Freshwater</p> <p>PNEC: 0.000032 mg/l Route of exposure: Marine water</p> <p>PNEC: 0.36 mg/kg Route of exposure: Freshwater sediment</p> <p>PNEC: 0.036 mg/kg Route of exposure: Marine water sediment</p>

8.2 Exposure controls

General recommendations	Smoking, drinking and consumption of food is not allowed in the work area.
Exposure scenarios	There are no exposure scenarios implemented for this product.
Exposure limits	Professional users are subjected to the legally set maximum concentrations for occupational exposure.
Appropriate technical measures	<p>Airborne gas and dust concentrations must be kept at a minimum and below current limit value.</p> <p>Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended.</p> <p>Ensure emergency eyewash and showers are clearly marked.</p>
Hygiene measures	In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.
Measures to avoid environmental exposure	No specific requirements
Personal protective equipment	Use only CE marked protective equipment
Skin protection	Dedicated work clothing should be worn
Hand protection	Vinyl / PVC Gloves of 0.6mm thickness
Eye protection	Wear safety glasses with side shields. Standards EN166

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Pale Yellow
Odour	Characteristic
pH	6.5 – 8.5
Density (g/cm ³)	~ 1.02
Kinematic viscosity	< 50 mPa.s
Melting point / Freezing point	> 6°C
Solubility in water	Soluble

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

The product is stable under the conditions noted in section 7 “Handling and storage”

10.3 Possibility of hazardous reactions

None.

10.4 Conditions to avoid

None

10.5 Incompatible materials

Strong acids, strong bases, strong oxidizing agents and strong reducing agents

10.6 Hazardous decomposition products

This product is not degraded when used as specified in section 1

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects



Substance	Alcohols, C9-11, branched and linear, ethoxylated, sulfates, ammonium salts
Acute toxicity	Test: LD50 Route of exposure: Dermal Result: 8560 mg/kg Species: Rabbit Test: LD50 Route of exposure: Oral Result: 3700 mg/kg Species: Rat
Substance	2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve
Acute toxicity	Test: LD50 Route of exposure: Oral Result: 2000.00 mg/kg Species: Rat Test: LD50 Route of exposure: Inhalation Result: 2.20 mg/l Species: Rat
Substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Acute toxicity	Test: LD50 Route of exposure: Dermal Result: 2000.00 mg/kg Species: Rat Test: LD50 Route of exposure: Oral Result: 4100 mg/kg Species: Rat Result: >225 mg/kg Species: Rat Route of exposure: Dermal Result: 68 mg/kg Species: Mouse
Substance	ethanediol
	Test: LD50 Route of exposure: Oral Result: 5840.00 mg/kg Species: Rat Test: LD50 Route of exposure: Dermal Result: 9530 mg/kg Species: Rabbit Test: LD50 Route of exposure: Oral Result: 7712 mg/kg Species: Rat

Substance	<p>Test: LD50 Route of exposure: Dermal Result: 3500.00 mg/kg Species: Mouse</p> <p>2-methylpentane-2,4-diol</p> <p>Test: LD50 Route of exposure: Oral Result: 3700.00 mg/kg Species: Rat</p>
Substance	<p>Test: LD50 Route of exposure: Dermal Result: 8560 mg/kg Species: Rabbit</p> <p>Sodium decyl sulphate</p> <p>Test: LD50 Route of exposure: Oral Result: 1200.00 mg/kg Species: Rat</p>
Substance	<p>Test: LD50 Route of exposure: Dermal Result: 2000 mg/kg Species: Rat</p> <p>3-C12-18-(even numbered)-alkylamido- N,N-dimethylpropan-1- amino oxide</p> <p>Test: LD50 Route of exposure: Oral Result: 500.00 mg/kg Species: Rat</p>
Substance	<p>Test: LD50 Route of exposure: Inhalation Result: 2.00 g/l Species: Rat</p> <p>Dodecan-1-ol</p> <p>Test: LD50 Route of exposure: Oral Result: 5000.00 mg/kg Species: Rat</p>
Substance	<p>Test: LD50 Route of exposure: Dermal Result: 2000 mg/kg Species: Rat</p> <p>Tetradecanol</p> <p>Test: LD50 Route of exposure: Oral Result: 5000.00 mg/kg Species: Rat</p> <p>Test: LD50 Route of exposure: Dermal Result: 2000 mg/kg</p>



Species: Rat

Other information

Skin corrosion / irritation

Causes skin irritation

Serious eye damage / irritation

Causes serious eye damage

11.2 Information on other hazards

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Substance

Alcohols, C9-11, branched and linear, ethoxylated, sulfates, ammonium salts

Test: LC50
Result: 7.1 mg/L
Duration: 96 hours
Species: Fish

Test: EC50
Result: 9.1 mg/L
Duration: 48 hours
Species: Daphnia

Test: EC50
Result: 100 mg/L
Duration: 72 hours
Species: Algae

2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve

Test: LC50
Result: 1474.00 mg/L
Duration: 96 hours
Species: Fish

Test: EC50
Result: 1840.00 mg/L
Duration: 72 hours
Species: Algae

Test: EC50
Result: 1550.00 mg/L
Duration: 48 hours
Species: Daphnia

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Test: LC50
Result: 7.1 mg/L
Duration: 96 hours
Species: Fish

Test: EC50
Result: 7.5 mg/L

	<p>Duration: 72 hours Species: Algae</p> <p>Test: EC50 Result: 7.2 mg/L Duration: 48 hours Species: Daphnia</p>
ethanediol	<p>Test: LC50 Result: 72860.00 mg/L Duration: 96 hours Species: Fish</p> <p>Test: EC50 Result: 6500.00 mg/L Duration: 96 hours Species: Algae</p>
2-methylpentane-2,4-diol	<p>Test: NOEC Result: 8590.00 mg/L Duration: No data available Species: Daphnia</p> <p>Test: LC50 Result: 8510.00 mg/L Duration: 96 hours Species: Fish</p>
	<p>Test: EC50 Result: 5410.00 mg/L Duration: 48 hours Species: Daphnia</p>
	<p>Test: IC50 Result: 429.00 mg/L Duration: 72 hours Species: Algae</p>
Sodium decyl sulphate	<p>Test: LC50 Result: 13.00 mg/L Duration: 48 hours Species: Fish</p> <p>Test: EC50 Result: 8.64 mg/L Duration: 72 hours Species: Algae</p>
	<p>Test: EC50 Result: >100 mg/L Duration: 24 hours Species: Daphnia</p>
3-C12-18-(even numbered)-alkylamido- N,N-dimethylpropan- 1 – amino oxide	<p>Test: EC50 Result: 16.00 mg/L Duration: 48 hours Species: Daphnia</p> <p>Test: LC50 Result: 0.68 mg/L Duration: 96 hours</p>

	<p>Species: Fish</p> <p>Test: NOEC Result: 0.70 mg/L Duration: 28 hours Species: Daphnia</p> <p>Test: EC50 Result: 3.40 mg/L Duration: 72 hours Species: Algae</p> <p>Test: NOEC Result: 1.00 mg/L Duration: 72 hours Species: Algae</p>
Dodecan-1-ol	<p>Test: LC50 Result: 1.01 mg/L Duration: 96 hours Species: Fish</p> <p>Test: EC50 Result: 0.765 mg/L Duration: 48 hours Species: Daphnia</p>
Tetradecanol	<p>Test: EC50 Result: 0.66 mg/L Duration: 96 hours Species: Algae</p> <p>Test: EC50 Result: 3.20 mg/L Duration: 48 hours Species: Daphnia</p> <p>Test: EC50 Result: 10.00 mg/L Duration: 96 hours Species: Algae</p> <p>Test: LC50 Result: 1.00 mg/L Duration: 96 hours Species: Fish</p>

12.2 Persistence and degradability

Substance	Alcohols, C9-11, branched and linear, ethoxylated, sulfates, ammonium salts
	<p>Biodegradable: Yes Result: 100%</p>
Substance	2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve
	<p>Biodegradable: Yes Test: OECD 301 B Result: 90%</p>

Substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts Biodegradable: Yes Test: OECD 301 B Result: 100%
Substance	ethanediol Biodegradable: Yes Result: 90%
Substance	2-methylpentane-2,4-diol Biodegradable: Yes Test: OECD 301 F Result: 81%
Substance	Sodium decyl sulphate Biodegradable: Yes Test: OECD 301 D Result: 80%
Substance	Dodecan-1-ol Biodegradable: Yes Test: OECD 301 C Result: 79%
Substance	Tetradecanol Biodegradable: Yes Test: OECD 301 B Result: 82.2%

12.3 Bio accumulative potential

Substance	Alcohols, C9-11, branched and linear, ethoxylated, sulfates, ammonium salts Potential Bioaccumulation: No
Substance	2-butoxyethanol;ethylene glycol monobutyl ether;butyl cellosolve Potential Bioaccumulation: No
Substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts Potential Bioaccumulation: No
Substance	ethanediol Potential Bioaccumulation: No
Substance	2-methylpentane-2,4-diol Potential Bioaccumulation: No
Substance	Sodium decyl sulphate Potential Bioaccumulation: No data available LogPow: 1,72
Substance	Dodecan-1-ol Potential Bioaccumulation: No LogPow: 5,6 BCF: 177.83

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB

12.6 Endocrine disrupting properties

No special

12.7 Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long term effects to the aquatic environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product is covered by the regulations on hazardous waste
 HP 4 – Irritant (skin irritation and eye damage)
 Dispose of contents/container to an approved waste disposal plant
 Regulation (EU) No 1357/2014 of 18 December 2014 on waste

EWC code	16 03 05 organic wastes containing dangerous substances
Specific labelling	Not applicable
Contaminated packing	Packaging containing residues of the product must be disposed of similarly to the product.

14. TRANSPORT INFORMATION

14.1 – 14.4

Not dangerous goods according to ADR, IATA and IMDG

14.5 Environmental hazards

Not applicable

15. REGULATORY INFORMATION



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

Restrictions for application	Restricted to professional users. Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.
Sources	Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work. The Health and Safety at Work etc. Act 1974 Regulations 2013. Regulation (EU) No 1357/2014 of 18 December 2014 on waste. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP). Regulation (EC) 1907/2006 (REACH)

15.2 Chemical safety assessment

Chemical safety assessment	Yes
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16. OTHER INFORMATION

Full text of H-phrases as mentioned in section 3	H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes Serious eye damage. H319 Causes serious eye irritation. 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.
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