

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: UK REACH Regulations (SI 2019/758 as amended)

Revision date 03/21/2024 Revision Number 1

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

1.1. Product identifier

Product Code(s) 345001

Safety data sheet number 0000062

Product Name Pet Stain & Odour Neutraliser

Pure substance/mixture Mixture

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

Recommended use Elimination of malodours from fabrics. Cleaning pet urine, vomit and faeces.

Uses advised against

1.3. Details of the supplier of the safety data sheet

Manufacturer

The London Oil Refining Company Ltd Astonish House Unit 8 Thornbury Ind. Est. Woodhall Road Bradford BD3 7AF, UK

Tel: +44 1274 767440 (8am-4pm Mon-Fri)

www.astonish.co.uk

For further information, please contact

E-mail address info@astonish.co.uk

1.4. Emergency telephone number

Emergency Telephone UK - Emergency Telephone: +44 (0) 1274 767440 (8am-4pm Mon-Fri).

Alternatively in UK: Contact NHS 111 Telephone 111 (24 hours a day, 7days a week):

Website 111.nhs.uk or a doctor

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Serious eye damage/eye irritation

Not classified

2.2. Label elements

Hazard statements

Precautionary statements

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P103 - Read label before use

Unknown acute toxicity

Unknown aquatic toxicity

Contains 0.73416 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards

Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU	UK REACH	Classification	Specific	M-Factor	M-Factor
		Index No)	registration number	according to GB CLP	concentration		(long-term)
				(SI 2020/1567 as	limit (SCL)		
				amended)			
15-hydroxypentadec	<0.025%	203-354-6	-	Aquatic Chronic 2	-	1	-
anoic acid,				(H411)			
omega-lactone				Skin Sens. 1A (H317)			
106-02-5							

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if

irritation develops and persists.

Skin contactWash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

Ingestion Rinse mouth. Do NOT induce vomiting.

Self-protection of the first aiderUse personal protective equipment as required.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes.

Effects of Exposure See Section 11 for additional Toxicological Information.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

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6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Avoid contact with eyes.

General hygiene considerations Avoid contact with eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits

established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Sulfuri Acid, Mono C12-14 Alkyl (Even Numbered) Esters, Sodium Salts 85586-07-8		4060 mg/kg bw/day [4] [6]	285 mg/m ³ [4] [6]
Phenoxyethanol 122-99-6		20.83 mg/kg bw/day [4] [6]	5.7 mg/m³ [4] [6] 5.7 mg/m³ [5] [6]
Sodium C14-C16 Olefin Sulphonate 68439-57-6		2158.33 mg/kg bw/day [4] [6]	152.22 mg/m³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
Tetrasodium		15000 mg/kg bw/day [4] [6]	7.3 mg/m ³ [4] [6]
N,N-bis(carboxylatomethyl)-L-glutamat			
51981-21-6			
3-octanol, 3,7-dimethyl 78-69-3		3.16 mg/kg bw/day [4] [6] 190 μg/cm2 [5] [6]	11.14 mg/m ³ [4] [6]
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides 68955-55-5		11 mg/kg bw/day [4] [6]	6.2 mg/m ³ [4] [6]
3-methyl-5-phenyl pentanol 55066-48-3		0.5 mg/kg bw/day [4] [6] 3 mg/kg bw/day [4] [7] 0.13 mg/cm2 [5] [6]	0.88 mg/m³ [4] [6] 5.3 mg/m³ [4] [7]
p-(2-methylpropyl)-4-hydroxy-4-methyl tetrahydropyran 63500-71-0		41.7 mg/kg bw/day [4] [6]	44.1 mg/m³ [4] [6]
2,6-dimethyloct-7-en-2-ol 18479-58-8		20.8 mg/kg bw/day [4] [6]	73.5 mg/m³ [4] [6]
Amyl salicylate 2050-08-0		0.9 mg/kg bw/day [4] [6]	3.17 mg/m ³ [4] [6]
Linalyl acetate 115-95-7		2.5 mg/kg bw/day [4] [6] 236.2 µg/cm2 [5] [6] 236.2 µg/cm2 [5] [7]	2.75 mg/m ³ [4] [6]
2-Methyl-3-(p-isoPropylPhenyl)Propion aldehyde 103-95-7		1.67 mg/kg bw/day [4] [6] 7.43 µg/cm2 [5] [6]	5.83 mg/m ³ [4] [6]
α-Hexylcinnamaldehyde 165184-98-5		18.2 mg/kg bw/day [4] [6] 525 µg/cm2 [5] [6] 525 µg/cm2 [5] [7]	0.078 mg/m ³ [4] [6] 6.28 mg/m ³ [5] [7]
Geranyl acetate 105-87-3		35.5 mg/kg bw/day [4] [6]	62.59 mg/m ³ [4] [6]
Heliotropin 120-57-0		2.5 mg/kg bw/day [4] [6]	17.6 mg/m³ [4] [6]
Coumarin 91-64-5		0.79 mg/kg bw/day [4] [6]	6.78 mg/m ³ [4] [6]
Benzyl cinnamate 103-41-3		2 mg/kg bw/day [4] [6]	7.05 mg/m³ [4] [6]
Citral 5392-40-5		1.7 mg/kg bw/day [4] [6] 140 μg/cm2 [5] [6]	9 mg/m ³ [4] [6]
benzyl benzoate 120-51-4		2.6 mg/kg bw/day [4] [6]	5.1 mg/m³ [4] [6] 102 mg/m³ [4] [7]
Linalool 78-70-6		2.5 mg/kg bw/day [4] [6] 5 mg/kg bw/day [4] [7] 3 mg/cm2 [5] [6] 3 mg/cm2 [5] [7]	2.8 mg/m³ [4] [6] 16.5 mg/m³ [4] [7]
benzaldehyde 100-52-7		1.14 mg/kg bw/day [4] [6] 1 % in mixture (weight basis) [5] [7]	9.8 mg/m³ [4] [6] 9.8 mg/m³ [5] [6]
Trimethylcyclopentenyl Methylisopentenol 67801-20-1		6.67 mg/kg bw/day [4] [6]	92.75 mg/m ³ [4] [6]
Geraniol 106-24-1		12.5 mg/kg bw/day [4] [6] 11800 μg/cm2 [5] [6]	161.6 mg/m ³ [4] [6]
Methyl Salicylate 119-36-8	2	6 mg/kg bw/day [4] [6]	17.5 mg/m³ [4] [6] 285 mg/m³ [4] [7]

Notes

[4] [5] Systemic health effects. Local health effects.

[6] [7] Long term. Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Sulfuri Acid, Mono C12-14 Alkyl (Even	24 mg/kg bw/day [4] [6]		85 mg/m³ [4] [6]
Numbered) Esters, Sodium Salts 85586-07-8			
Phenoxyethanol	9.23 mg/kg bw/day [4] [6]		2.41 mg/m ³ [4] [6]
122-99-6	9.23 mg/kg bw/day [4] [7]		2.41 mg/m ³ [5] [6]
Sodium C14-C16 Olefin Sulphonate	12.95 mg/kg bw/day [4] [6]		45.04 mg/m³ [4] [6]
68439-57-6			-
Tetrasodium	1.5 mg/kg bw/day [4] [6]		1.8 mg/m³ [4] [6]
N,N-bis(carboxylatomethyl)-L-glutamat			
e 51981-21-6			
3-octanol, 3,7-dimethyl	1.58 mg/kg bw/day [4] [6]	190 µg/cm2 [5] [6]	2.75 mg/m ³ [4] [6]
78-69-3	mee mgmg amaay [n] [e]	[0][0]	[[[]
Amines, C12-18(even	0.44 mg/kg bw/day [4] [6]		1.53 mg/m³ [4] [6]
numbered)-alkyldimethyl, N-oxides			
68955-55-5	0.00 // 1. /1. [4][0]	4.5 (1.1.71.50)	0.04 / 3.141.101
3-methyl-5-phenyl pentanol 55066-48-3	0.06 mg/kg bw/day [4] [6] 0.375 mg/kg bw/day [4] [7]	1.5 mg/kg bw/day [4] [6] 1.5 mg/kg bw/day [4] [7]	0.21 mg/m³ [4] [6] 1.3 mg/m³ [4] [7]
33000-40-3	0.575 mg/kg bw/day [+] [7]	0.065 mg/cm2 [5] [6]	1.5 mg/m [+j[/]
		0.39 mg/cm2 [5] [7]	
p-(2-methylpropyl)-4-hydroxy-4-methyl	7.5 mg/kg bw/day [4] [6]		13 mg/m³ [4] [6]
tetrahydropyran			
63500-71-0 2,6-dimethyloct-7-en-2-ol	12.5 mg/kg bw/day [4] [6]		21.7 mg/m ³ [4] [6]
2,6-diffethyloct-7-en-2-of 18479-58-8	12.5 Hg/kg bw/day [4] [6]		21.7 mg/m² [4] [6]
Amyl salicylate	0.45 mg/kg bw/day [4] [6]		0.78 mg/m ³ [4] [6]
2050-08-0	3 3 3 4 4 4 3 1 11 1		3 1 11-1
Linalyl acetate	0.2 mg/kg bw/day [4] [6]	236.2 µg/cm2 [5] [6]	0.68 mg/m³ [4] [6]
115-95-7	0.00 // 1. /1. [4][0]	236.2 µg/cm2 [5] [7]	4.45 / 3.141.101
2-Methyl-3-(p-isoPropylPhenyl)Propion aldehyde	0.83 mg/kg bw/day [4] [6]	3.72 μg/cm2 [5] [6]	1.45 mg/m³ [4] [6]
103-95-7			
α-Hexylcinnamaldehyde	0.056 mg/kg bw/day [4] [6]	78.7 µg/cm2 [5] [6]	0.019 mg/m ³ [4] [6]
165184-98-5		78.7 µg/cm2 [5] [7]	4.71 mg/m ³ [5] [7]
Geranyl acetate	8.9 mg/kg bw/day [4] [6]		15.4 mg/m ³ [4] [6]
105-87-3	4.05 // h.u./day [4] [6]		4.2 3.[4].[6]
Heliotropin 120-57-0	1.25 mg/kg bw/day [4] [6]		4.3 mg/m³ [4] [6]
Coumarin	0.39 mg/kg bw/day [4] [6]		1.69 mg/m³ [4] [6]
91-64-5	0.00 mg/ng 2m/day [1] [0]		
Benzyl cinnamate	1 mg/kg bw/day [4] [6]		1.74 mg/m ³ [4] [6]
103-41-3			
Citral	0.6 mg/kg bw/day [4] [6]	140 μg/cm2 [5] [6]	2.7 mg/m³ [4] [6]
5392-40-5 benzyl benzoate	0.4 mg/kg bw/day [4] [6]		1.25 mg/m ³ [4] [6]
120-51-4	78 mg/kg bw/day [4] [7]		25 mg/m³ [4] [7]
Linalool	0.2 mg/kg bw/day [4] [6]	2.5 mg/kg bw/day [4] [6]	0.7 mg/m ³ [4] [6]
78-70-6	1.2 mg/kg bw/day [4] [7]	2.5 mg/kg bw/day [4] [7]	4.1 mg/m³ [4] [7]
		1.5 mg/cm2 [5] [6]	
honzoldobudo	0.67 mg/kg hw/dov [4] [0]	1.5 mg/cm2 [5] [7]	4.0 mg/m3 [4] [6]
benzaldehyde 100-52-7	0.67 mg/kg bw/day [4] [6]	1 % in mixture (weight basis) [5] [7]	4.9 mg/m³ [4] [6] 4.9 mg/m³ [5] [6]
Trimethylcyclopentenyl	3.33 mg/kg bw/day [4] [6]	[0][1]	23.15 mg/m ³ [4] [6]
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Chemical name	Oral	Dermal	Inhalation
Methylisopentenol 67801-20-1			
Geraniol 106-24-1	13.75 mg/kg bw/day [4] [6]	11800 μg/cm2 [5] [6]	47.8 mg/m ³ [4] [6]
Methyl Salicylate 119-36-8	1 mg/kg bw/day [4] [6] 5 mg/kg bw/day [4] [7]		4 mg/m³ [4] [6] 213 mg/m³ [4] [7]

Notes

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Sulfuri Acid, Mono C12-14 Alkyl (Even Numbered) Esters, Sodium Salts 85586-07-8	0.131 mg/L	0.036 mg/L	0.0131 mg/L		
Phenoxyethanol 122-99-6	0.943 mg/L	3.44 mg/L	0.0943 mg/L		
Sodium C14-C16 Olefin Sulphonate 68439-57-6	0.024 mg/L	0.0197 mg/L	0.0024 mg/L		
Tetrasodium N,N-bis(carboxylatomethyl) -L-glutamate 51981-21-6	9.45 mg/L	0.953 mg/L	0.945 mg/L	0.0953 mg/L	
3-octanol, 3,7-dimethyl 78-69-3	0.0089 mg/L	0.089 mg/L	0.00089 mg/L		
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides 68955-55-5	0.0335 mg/L	0.0335 mg/L	0.00335 mg/L		
3-methyl-5-phenyl pentanol 55066-48-3	0.013 mg/L	0.13 mg/L	0.0013 mg/L		
p-(2-methylpropyl)-4-hydro xy-4-methyl tetrahydropyran 63500-71-0	0.094 mg/L	0.94 mg/L	0.0094 mg/L		
15-hydroxypentadecanoic acid, omega-lactone 106-02-5	2.7 μg/L		0.27 μg/L		
2,6-dimethyloct-7-en-2-ol 18479-58-8	27.8 μg/L	0.278 mg/L	2.78 μg/L		
Amyl salicylate 2050-08-0	0.77 μg/L	7.7 µg/L	0.077 μg/L		
Linalyl acetate 115-95-7	0.011 mg/L	0.11 mg/L	0.0011 mg/L		
2-Methyl-3-(p-isoPropylPh enyl)Propionaldehyde 103-95-7	1.09 μg/L	10.92 μg/L	0.11 μg/L		

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
α-Hexylcinnamaldehyde 165184-98-5	0.00126 mg/L	0.00247 mg/L	0.000126 mg/L		
Geranyl acetate 105-87-3	3.72 µg/L	37.2 μg/L	0.372 μg/L		
Heliotropin 120-57-0	2.5 μg/L	25 μg/L	0.25 μg/L		
Coumarin 91-64-5	19 μg/L	14.2 μg/L	1.9 μg/L		
Citral 5392-40-5	0.00678 mg/L	0.0678 mg/L	0.000678 mg/L		
benzyl benzoate 120-51-4	0.0168 mg/L		0.00168 mg/L		
Linalool 78-70-6	0.2 mg/L	2 mg/L	0.02 mg/L		
Trimethylcyclopentenyl Methylisopentenol 67801-20-1	0.0019 mg/L	0.019 mg/L	0.00019 mg/L		
Geraniol 106-24-1	0.0108 mg/L	0.108 mg/L	0.00108 mg/L		
Methyl Salicylate 119-36-8	20 μg/L	200 μg/L	2 μg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Sulfuri Acid, Mono C12-14 Alkyl (Even Numbered) Esters, Sodium Salts 85586-07-8	4.61 mg/kg sediment dw	0.461 mg/kg sediment dw	1.35 mg/L	0.846 mg/kg soil dw	
Phenoxyethanol 122-99-6	7.2366 mg/kg sediment dw	0.7237 mg/kg sediment dw	36 mg/L	1.31 mg/kg soil dw	
Sodium C14-C16 Olefin Sulphonate 68439-57-6	0.767 mg/kg sediment dw	0.0767 mg/kg sediment dw	4 mg/L	1.21 mg/kg soil dw	
Tetrasodium N,N-bis(carboxylatomethyl) -L-glutamate 51981-21-6			41.2 mg/L	0.5 mg/kg soil dw	67 mg/kg food
3-octanol, 3,7-dimethyl 78-69-3	0.0821 mg/kg sediment dw	0.00821 mg/kg sediment dw	450 mg/L	0.0112 mg/kg soil dw	
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides 68955-55-5	5.24 mg/kg sediment dw	0.524 mg/kg sediment dw	24 mg/L	1.02 mg/kg soil dw	11.1 mg/kg food
3-methyl-5-phenyl pentanol 55066-48-3	1.0335 mg/kg sediment dw	0.10335 mg/kg sediment dw	10 mg/L	0.199 mg/kg soil dw	10 mg/kg food
p-(2-methylpropyl)-4-hydro xy-4-methyl tetrahydropyran 63500-71-0	0.412 mg/kg sediment dw	0.0412 mg/kg sediment dw	10 mg/L	0.0902 mg/kg soil dw	
15-hydroxypentadecanoic acid, omega-lactone 106-02-5	21 mg/kg sediment dw	4.2 mg/kg sediment dw	10 mg/L	5.44 mg/kg soil dw	

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
2,6-dimethyloct-7-en-2-ol 18479-58-8	0.594 mg/kg sediment dw	0.0594 mg/kg sediment dw	10 mg/L	0.103 mg/kg soil dw	111 mg/kg food
Amyl salicylate 2050-08-0	0.389 mg/kg sediment dw	0.0389 mg/kg sediment dw	10 mg/L	1.786 mg/kg soil dw	80 mg/kg food
Linalyl acetate 115-95-7	0.609 mg/kg sediment dw	0.0609 mg/kg sediment dw	1 mg/L	0.115 mg/kg soil dw	
2-Methyl-3-(p-isoPropylPh enyl)Propionaldehyde 103-95-7	0.126 mg/kg sediment dw	0.0126 mg/kg sediment dw	1 mg/L	0.0245 mg/kg soil dw	33.3 mg/kg food
α-Hexylcinnamaldehyde 165184-98-5	3.2 mg/kg sediment dw	0.064 mg/kg sediment dw	10 mg/L	0.398 mg/kg soil dw	6.6 mg/kg food
Geranyl acetate 105-87-3	0.442 mg/kg sediment dw	0.0442 mg/kg sediment dw	8 mg/L	0.0859 mg/kg soil dw	
Heliotropin 120-57-0	11.9 µg/kg sediment dw	1.2 µg/kg sediment dw	10 mg/L	0.84 μg/kg soil dw	
Coumarin 91-64-5	0.15 mg/kg sediment dw	0.015 mg/kg sediment dw	6.4 mg/L	0.018 mg/kg soil dw	30.7 mg/kg food
Citral 5392-40-5	0.125 mg/kg sediment dw	0.0125 mg/kg sediment dw	1.6 mg/L	0.0209 mg/kg soil dw	
benzyl benzoate 120-51-4	10.66 mg/kg sediment dw	1.07 mg/kg sediment dw	100 mg/L	2.12 mg/kg soil dw	
Linalool 78-70-6	2.22 mg/kg sediment dw	0.222 mg/kg sediment dw	10 mg/L	0.327 mg/kg soil dw	7.8 mg/kg food
Trimethylcyclopentenyl Methylisopentenol 67801-20-1	0.067 mg/kg sediment dw	0.0067 mg/kg sediment dw	1 mg/L	0.0534 mg/kg soil dw	33.3 mg/kg food
Geraniol 106-24-1	0.115 mg/kg sediment dw	0.0115 mg/kg sediment dw	0.7 mg/L	0.0167 mg/kg soil dw	
Methyl Salicylate 119-36-8	0.52 mg/kg sediment dw	0.052 mg/kg sediment dw	140 mg/L	0.35 mg/kg soil dw	

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Avoid contact with eyes.

Hand protection No special protective equipment required.

Skin and body protectionNo special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid contact with eyes.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

Appearance Clear colourless liquid

ColorColourlessOdorFruity/Floral.Odor thresholdNot applicable

Property Values Remarks • Method

Melting point / freezing point No data available None known

Initial boiling point and boiling > 100 °C Not measured (>100°C)

range

Flammability No data available Does not ignite Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash pointNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNone known

pH 7 - 9 pH (concentrated solution): 7.0 - 9.0

pH (as aqueous solution) No data available None known Kinematic viscosity No data available None known Dynamic viscosity Not measured None known Water solubility No data available Soluble in water None known Solubility(ies) No data available None known No data available None known

Partition coefficientNo data availableNone knownVapor pressureNo data availableNone knownRelative density1.000 - 1.010 @ 20°CNone knownBulk densityNo data available

Liquid Density 1.000 - 1.010

Relative vapor density > 1 (Air=1) None known

Particle characteristics

Particle Size

Particle Size Distribution

Explosive properties None

Oxidizing properties No information available

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

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10.4. Conditions to avoid

Conditions to avoidNone known based on information supplied.

10.5. Incompatible materials

Incompatible materialsNone known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation No known effect based on information supplied.

Eye contact May cause slight eye irritation.

Skin contact No known effect based on information supplied.

Ingestion No known effect based on information supplied.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes.

Acute toxicity .

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 99,999.00
 mg/kg

 ATEmix (dermal)
 99,999.00
 mg/kg

 ATEmix (inhalation-gas)
 99,999.00
 ppm

 ATEmix (inhalation-dust/mist)
 99,999.00
 mg/l

Unknown acute toxicity Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
15-hydroxypentadecanoic acid, omega-lactone	> 5 g/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationBased on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

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

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposureBased on available data, the classification criteria are not met.

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

Other adverse effects No other adverse effects expected.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Not considered to be harmful to aquatic life.

Unknown aquatic toxicityContains 0.73416 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence and degradability None known.

12.3. Bioaccumulative potential

Bioaccumulation Not likely to bioaccumulate.

Component Information

Chemical name	Partition coefficient	
15-hydroxypentadecanoic acid, omega-lactone	5.79	

12.4. Mobility in soil

Mobility in soil Not determined.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the

threshold of declaration.

Chemical name	PBT and vPvB assessment
15-hydroxypentadecanoic acid, omega-lactone	The substance is not PBT / vPvB

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

	T A
Δ	14

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable

14.6 Special precautions for user

Special Provisions None

IMDG

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable

14.6 Special precautions for user

Special Provisions None

14.7 Maritime transport in bulk Not regulated according to IMO instruments

RID

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable

14.6 Special precautions for user

Special Provisions None

ADR

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable

14.6 Special precautions for user

Special Provisions None

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SECTION 15: Regulatory information

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

National regulations

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

International Inventories

TSCA Contact supplier for inventory compliance status **DSL/NDSL** Contact supplier for inventory compliance status **EINECS/ELINCS** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **ENCS** Contact supplier for inventory compliance status **IECSC** Contact supplier for inventory compliance status **KECL PICCS** Contact supplier for inventory compliance status Contact supplier for inventory compliance status AIIC **NZIoC** Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment has not been carried out for this mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H317 - May cause an allergic skin reaction

H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

+ Sensitizers

Classification	procedure

Olassification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date

03/21/2024

This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended) 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

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

UK SDS version information - XGHS

UL release: GHS Revision 7 2022 Q1

United Kingdom

Partial process, including GHS Wizard, NO TW

Full text of H-Statements referred to under H317 - May cause an allergic skin reaction H411 - Toxic to aquatic life with long lasting effects section 3

	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)
, , ,,	Aquatic Chronic 2 (H411) Skin Sens. 1A (H317)	