



# SAFETY DATA SHEET

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

Revision date 05/03/2024

Revision Number 2

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

### 1.1. Product identifier

Product Code(s)	C2625
Safety data sheet number	0000042
Product Name	Pet Fresh Floor Cleaner
Pure substance/mixture	Mixture
Formula	262501F1

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

**Recommended use** Cleaning non-porous floors where pets have been.

**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](http://www.astonish.co.uk)

For further information, please contact

**E-mail address** [info@astonish.co.uk](mailto: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

Not classified

### 2.2. Label elements

Not classified

#### **Hazard statements**

Not classified

#### **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 aquatic toxicity**

Contains 0.1172 % of components with unknown hazards to the aquatic environment.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides 68955-55-5	0.025 - <0.25%	931-341-1	-	Aquatic Chronic 2 (H411) Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	-	-	-

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

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

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

Inhalation	Remove to fresh air.
Eye contact	Rinse eyes. If symptoms persist, call a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Rinse mouth.

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

Symptoms	No information available.
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.
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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the 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.
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**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.
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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions	Ensure adequate ventilation.
For emergency responders	Use personal protection recommended in Section 8.

**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 up** Take 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** Ensure adequate ventilation.

**General hygiene considerations** Wash hands before breaks and immediately after handling the product.

### **7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry 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
Undecanol, branched and linear, ethoxylated (>5-15 EO) 68439-46-3		2080 mg/kg bw/day [4] [6]	294 mg/m <sup>3</sup> [4] [6]
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides 68955-55-5		11 mg/kg bw/day [4] [6]	6.2 mg/m <sup>3</sup> [4] [6]
Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamat		15000 mg/kg bw/day [4] [6]	7.3 mg/m <sup>3</sup> [4] [6]

Chemical name	Oral	Dermal	Inhalation
e 51981-21-6			
Benzyl acetate 140-11-4		2.5 mg/kg bw/day [4] [6]	9 mg/m <sup>3</sup> [4] [6]
dl-Citronellol 106-22-9		327.4 mg/kg bw/day [4] [6] 2950 µg/cm <sup>2</sup> [5] [7]	161.6 mg/m <sup>3</sup> [4] [6] 10 mg/m <sup>3</sup> [5] [6] 10 mg/m <sup>3</sup> [5] [7]
Butylphenyl methylpropional 80-54-6		1.79 mg/kg bw/day [4] [6] 410 µg/cm <sup>2</sup> [5] [6] 410 µg/cm <sup>2</sup> [5] [7]	0.44 mg/m <sup>3</sup> [4] [6]
Phenyl Ethyl Alcohol 60-12-8		21.2 mg/kg bw/day [4] [6]	59.9 mg/m <sup>3</sup> [4] [6]
p-(2-methylpropyl)-4-hydroxy-4-methyl tetrahydropyran 63500-71-0		41.7 mg/kg bw/day [4] [6]	44.1 mg/m <sup>3</sup> [4] [6]
3,7-dimethyl-2,6-octadien-1-ol 106-25-2		1.25 mg/kg bw/day [4] [6]	4.4 mg/m <sup>3</sup> [4] [6]
2-sec-butylcyclohexan-1-one 14765-30-1		1.01 mg/kg bw/day [4] [6] 3.02 mg/kg bw/day [4] [7] 2.52 mg/cm <sup>2</sup> [5] [6] 7.55 mg/cm <sup>2</sup> [5] [7]	3.55 mg/m <sup>3</sup> [4] [6] 10.65 mg/m <sup>3</sup> [4] [7] 8.87 mg/m <sup>3</sup> [5] [6] 26.62 mg/m <sup>3</sup> [5] [7]
2,6-dimethyloct-7-en-2-ol 18479-58-8		20.8 mg/kg bw/day [4] [6]	73.5 mg/m <sup>3</sup> [4] [6]
Eucalyptol 470-82-6		2 mg/kg bw/day [4] [6]	7.05 mg/m <sup>3</sup> [4] [6]
Geraniol 106-24-1		12.5 mg/kg bw/day [4] [6] 11800 µg/cm <sup>2</sup> [5] [6]	161.6 mg/m <sup>3</sup> [4] [6]
1,2-benzisothiazol-3(2H)-one 2634-33-5		0.966 mg/kg bw/day [4] [6]	6.81 mg/m <sup>3</sup> [4] [6]
2-Methylundecanal 110-41-8		10.46 mg/kg bw/day [4] [6] 100 mg/kg bw/day [4] [7] 35.7 mg/cm <sup>2</sup> [5] [6] 71.43 mg/cm <sup>2</sup> [5] [7]	36.89 mg/m <sup>3</sup> [4] [6] 352.63 mg/m <sup>3</sup> [4] [7] 92.21 mg/m <sup>3</sup> [5] [6] 881.58 mg/m <sup>3</sup> [5] [7]
Sodium Hydroxide 1310-73-2			1 mg/m <sup>3</sup> [5] [6]
Coumarin 91-64-5		0.79 mg/kg bw/day [4] [6]	6.78 mg/m <sup>3</sup> [4] [6]
Alpha-Isomethyl Ionone 127-51-5		0.375 mg/kg bw/day [4] [6]	8.22 mg/m <sup>3</sup> [4] [6]
Eugenol 97-53-0		6 mg/kg bw/day [4] [6]	21.2 mg/m <sup>3</sup> [4] [6]
Dodecanal 112-54-9		14.1 mg/kg bw/day [4] [6] 0.57 µg/cm <sup>2</sup> [5] [6]	49.7 mg/m <sup>3</sup> [4] [6]
alpha-Pinene 80-56-8		0.542 mg/kg bw/day [4] [6]	3.8 mg/m <sup>3</sup> [4] [6]
Hexyl Salicylate 6259-76-3		6.4 mg/kg bw/day [4] [6] 885 µg/cm <sup>2</sup> [5] [6] 885 µg/cm <sup>2</sup> [5] [7]	1.7 mg/m <sup>3</sup> [4] [6]
Citral 5392-40-5		1.7 mg/kg bw/day [4] [6] 140 µg/cm <sup>2</sup> [5] [6]	9 mg/m <sup>3</sup> [4] [6]
Linalool 78-70-6		2.5 mg/kg bw/day [4] [6] 5 mg/kg bw/day [4] [7] 3 mg/cm <sup>2</sup> [5] [6] 3 mg/cm <sup>2</sup> [5] [7]	2.8 mg/m <sup>3</sup> [4] [6] 16.5 mg/m <sup>3</sup> [4] [7]

## Notes

[4]

[5]

Systemic health effects.

Local health effects.

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

## Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Undecanol, branched and linear, ethoxylated (>5-15 EO) 68439-46-3	25 mg/kg bw/day [4] [6]		87 mg/m <sup>3</sup> [4] [6]
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides 68955-55-5	0.44 mg/kg bw/day [4] [6]		1.53 mg/m <sup>3</sup> [4] [6]
Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate 51981-21-6	1.5 mg/kg bw/day [4] [6]		1.8 mg/m <sup>3</sup> [4] [6]
Benzyl acetate 140-11-4	1.3 mg/kg bw/day [4] [6]		2.2 mg/m <sup>3</sup> [4] [6]
dl-Citronellol 106-22-9	13.8 mg/kg bw/day [4] [6]	2950 µg/cm <sup>2</sup> [5] [7]	47.8 mg/m <sup>3</sup> [4] [6] 10 mg/m <sup>3</sup> [5] [6] 10 mg/m <sup>3</sup> [5] [7]
Butylphenyl methylpropional 80-54-6	0.0625 mg/kg bw/day [4] [6]	410 µg/cm <sup>2</sup> [5] [6] 410 µg/cm <sup>2</sup> [5] [7]	0.11 mg/m <sup>3</sup> [4] [6]
Phenyl Ethyl Alcohol 60-12-8	5.1 mg/kg bw/day [4] [6] 5.1 mg/kg bw/day [4] [7]		17.7 mg/m <sup>3</sup> [4] [6]
p-(2-methylpropyl)-4-hydroxy-4-methyl tetrahydropyran 63500-71-0	7.5 mg/kg bw/day [4] [6]		13 mg/m <sup>3</sup> [4] [6]
3,7-dimethyl-2,6-octadien-1-ol 106-25-2	0.62 mg/kg bw/day [4] [6]		1.09 mg/m <sup>3</sup> [4] [6]
2-sec-butylcyclohexan-1-one 14765-30-1	0.5 mg/kg bw/day [4] [6] 1.51 mg/kg bw/day [4] [7]	1.51 mg/kg bw/day [4] [6] 1.51 mg/kg bw/day [4] [7] 1.26 mg/cm <sup>2</sup> [5] [6] 3.78 mg/cm <sup>2</sup> [5] [7]	0.88 mg/m <sup>3</sup> [4] [6] 2.63 mg/m <sup>3</sup> [4] [7] 2.19 mg/m <sup>3</sup> [5] [6] 6.57 mg/m <sup>3</sup> [5] [7]
2,6-dimethyloct-7-en-2-ol 18479-58-8	12.5 mg/kg bw/day [4] [6]		21.7 mg/m <sup>3</sup> [4] [6]
Eucalyptol 470-82-6	600 mg/kg bw/day [4] [6]		1.74 mg/m <sup>3</sup> [4] [6]
Geraniol 106-24-1	13.75 mg/kg bw/day [4] [6]	11800 µg/cm <sup>2</sup> [5] [6]	47.8 mg/m <sup>3</sup> [4] [6]
1,2-benzisothiazol-3(2H)-one 2634-33-5			1.2 mg/m <sup>3</sup> [4] [6]
2-Methylundecanal 110-41-8	5.23 mg/kg bw/day [4] [6] 25 mg/kg bw/day [4] [7]	50 mg/kg bw/day [4] [6] 50 mg/kg bw/day [4] [7] 17.86 mg/cm <sup>2</sup> [5] [6] 35.71 mg/cm <sup>2</sup> [5] [7]	9.1 mg/m <sup>3</sup> [4] [6] 86.96 mg/m <sup>3</sup> [4] [7] 22.74 mg/m <sup>3</sup> [5] [6] 217.39 mg/m <sup>3</sup> [5] [7]
Sodium Hydroxide 1310-73-2			1 mg/m <sup>3</sup> [5] [6]
Coumarin 91-64-5	0.39 mg/kg bw/day [4] [6]		1.69 mg/m <sup>3</sup> [4] [6]
Alpha-Isomethyl Ionone 127-51-5	35.5 µg/kg bw/day [4] [6]		1.45 mg/m <sup>3</sup> [4] [6]
Eugenol 97-53-0	3 mg/kg bw/day [4] [6]		5.22 mg/m <sup>3</sup> [4] [6]
Dodecanal 112-54-9	7 mg/kg bw/day [4] [6]	0.28 µg/cm <sup>2</sup> [5] [6]	12.3 mg/m <sup>3</sup> [4] [6]
alpha-Pinene 80-56-8	0.225 mg/kg bw/day [4] [6]		0.674 mg/m <sup>3</sup> [4] [6]
Hexyl Salicylate	0.3 mg/kg bw/day [4] [6]	442.5 µg/cm <sup>2</sup> [5] [6]	0.4 mg/m <sup>3</sup> [4] [6]

Chemical name	Oral	Dermal	Inhalation
6259-76-3		442.5 µg/cm <sup>2</sup> [5] [7]	
Citral 5392-40-5	0.6 mg/kg bw/day [4] [6]	140 µg/cm <sup>2</sup> [5] [6]	2.7 mg/m <sup>3</sup> [4] [6]
Linalool 78-70-6	0.2 mg/kg bw/day [4] [6] 1.2 mg/kg bw/day [4] [7]	2.5 mg/kg bw/day [4] [6] 2.5 mg/kg bw/day [4] [7] 1.5 mg/cm <sup>2</sup> [5] [6] 1.5 mg/cm <sup>2</sup> [5] [7]	0.7 mg/m <sup>3</sup> [4] [6] 4.1 mg/m <sup>3</sup> [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
Undecanol, branched and linear, ethoxylated (>5-15 EO) 68439-46-3	0.10379 mg/L	0.014 mg/L	0.10379 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		
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	
Benzyl acetate 140-11-4	0.0184 mg/L	0.04 mg/L	0.00184 mg/L		
dl-Citronellol 106-22-9	0.0024 mg/L	0.024 mg/L	0.00024 mg/L		
Butylphenyl methylpropional 80-54-6	0.004 mg/L	0.024 mg/L	0.0004 mg/L		
Phenyl Ethyl Alcohol 60-12-8	0.215 mg/L	2.15 mg/L	0.0215 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		
3,7-dimethyl-2,6-octadien- 1-ol 106-25-2	7.45 µg/L	74.5 µg/L	0.745 µg/L		
2-sec-butylcyclohexan-1-o ne 14765-30-1	12 µg/L	120 µg/L	1.2 µg/L	12 µg/L	
2,6-dimethyloct-7-en-2-ol 18479-58-8	27.8 µg/L	0.278 mg/L	2.78 µg/L		
Eucalyptol 470-82-6	57 µg/L	0.57 mg/L	5.7 µg/L		
Geraniol 106-24-1	0.0108 mg/L	0.108 mg/L	0.00108 mg/L		

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
1,2-benzisothiazol-3(2H)-one 2634-33-5	4.03 µg/L	1.1 µg/L	0.403 µg/L	110 ng/L	
2-Methylundecanal 110-41-8	0.66 µg/L	1.8 µg/L	66 ng/L	0.18 µg/L	
Coumarin 91-64-5	19 µg/L	14.2 µg/L	1.9 µg/L		
Alpha-Isomethyl Ionone 127-51-5	1.43 µg/L	14.3 µg/L	0.143 µg/L	1.43 µg/L	
Eugenol 97-53-0	1.13 µg/L	11.3 µg/L	0.113 µg/L		
Dodecanal 112-54-9	0.0035 mg/L	0.035 mg/L	0.00035 mg/L		
alpha-Pinene 80-56-8	0.606 µg/L	3.03 µg/L	0.0606 µg/L	0.303 µg/L	
Citral 5392-40-5	0.00678 mg/L	0.0678 mg/L	0.000678 mg/L		
3a,4,5,6,7,7a-hexahydro-4 7-methano-1h-inden-5(6)-yl propionate 68912-13-0	91 µg/L		9.1 µg/L		
Linalool 78-70-6	0.2 mg/L	2 mg/L	0.02 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Undecanol, branched and linear, ethoxylated (>5-15 EO) 68439-46-3	13.7 mg/kg sediment dw	13.7 mg/kg sediment dw	1.4 mg/L	1 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
Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate 51981-21-6			41.2 mg/L	0.5 mg/kg soil dw	67 mg/kg food
Benzyl acetate 140-11-4	0.526 mg/kg sediment dw	0.0526 mg/kg sediment dw	8.55 mg/L	0.09443 mg/kg soil dw	
dl-Citronellol 106-22-9	0.0256 mg/kg sediment dw	0.00256 mg/kg sediment dw	580 mg/L	0.00371 mg/kg soil dw	
Butylphenyl methylpropional 80-54-6	0.528 mg/kg sediment dw	0.0528 mg/kg sediment dw	10 mg/L	0.103 mg/kg soil dw	
Phenyl Ethyl Alcohol 60-12-8	1.454 mg/kg sediment dw	0.1454 mg/kg sediment dw	10 mg/L	0.164 mg/kg soil dw	
p-(2-methylpropyl)-4-hydroxy-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	
3,7-dimethyl-2,6-octadien-1-ol	133 µg/kg sediment dw	13.3 µg/kg sediment dw	12.9 mg/L	22.3 µg/kg soil dw	



Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
106-25-2					
2-sec-butylcyclohexan-1-one 14765-30-1	0.521 mg/kg sediment dw	0.0521 mg/kg sediment dw	10 mg/L	0.0972 mg/kg soil dw	5.03 mg/kg food
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
Eucalyptol 470-82-6	1.425 mg/kg sediment dw	0.1425 mg/kg sediment dw	10 mg/L	0.25 mg/kg soil dw	40 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	
1,2-benzisothiazol-3(2H)-one 2634-33-5	49.9 µg/kg sediment dw	4.99 µg/kg sediment dw	1.03 mg/L	3 mg/kg soil dw	
2-Methylundecanal 110-41-8	0.265 mg/kg sediment dw	26.5 µg/kg sediment dw	10 mg/L	52.6 µg/kg soil dw	116 mg/kg food
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
Alpha-Isomethyl Ionone 127-51-5	0.443 mg/kg sediment dw	44.3 µg/kg sediment dw	10 mg/L	87.8 µg/kg soil dw	
Eugenol 97-53-0	0.081 mg/kg sediment dw	0.0081 mg/kg sediment dw		0.0155 mg/kg soil dw	
Dodecanal 112-54-9	1.41 mg/kg sediment dw	0.141 mg/kg sediment dw	10 mg/L	0.278 mg/kg soil dw	313 mg/kg food
alpha-Pinene 80-56-8	157 µg/kg sediment dw	15.7 µg/kg sediment dw	0.2 mg/L	31.7 µg/kg soil dw	8.76 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	
3a,4,5,6,7,7a-hexahydro-4H-7-methano-1h-inden-5(6H)-yl propionate 68912-13-0	12.2 mg/kg sediment dw	1.22 mg/kg sediment dw	4.8 mg/L	4.4 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

## 8.2. Exposure controls

**Engineering controls** No information available.

### Personal protective equipment

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No 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.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

Physical state	Liquid
Color	Clear lilac thin liquid
Odor	Citrus/Green Floral.
Odor threshold	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	8 - 10	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	0.996 - 1.004	
Relative vapor density	No data available	None known
Particle characteristics		
Particle Size		
Particle Size Distribution		
Explosive properties	No information available	
Oxidizing properties	No information available	

**9.2. Other information****SECTION 10: Stability and reactivity****10.1. Reactivity**

Reactivity	Stable.
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**10.2. Chemical stability**

Stability	Stable under normal conditions.
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**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 avoid** None known based on information supplied.

**10.5. Incompatible materials**

**Incompatible materials** None 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 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** None known.

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

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides	-	> 2000 mg/kg ( Rat )	-

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

**Skin corrosion/irritation** Based 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 exposure	Based 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

Unknown aquatic toxicity	Contains 0.1172 % of components with unknown hazards to the aquatic environment.
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### 12.2. Persistence and degradability

Persistence and degradability	None known.
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### 12.3. Bioaccumulative potential

Bioaccumulation	Not likely to bioaccumulate.
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### 12.4. Mobility in soil

Mobility in soil	Not determined.
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### 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.
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Chemical name	PBT and vPvB assessment
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides	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**IATA

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 according to IMO instruments	Not regulated

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

**SECTION 15: Regulatory information**

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

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

**Legend:**

<b>TSCA</b>	- United States Toxic Substances Control Act Section 8(b) Inventory
<b>DSL/NDSL</b>	- Canadian Domestic Substances List/Non-Domestic Substances List
<b>EINECS/ELINCS</b>	- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
<b>ENCS</b>	- Japan Existing and New Chemical Substances
<b>IECSC</b>	- China Inventory of Existing Chemical Substances
<b>KECL</b>	- Korean Existing and Evaluated Chemical Substances
<b>PICCS</b>	- Philippines Inventory of Chemicals and Chemical Substances
<b>AIIC</b>	- Australian Inventory of Industrial Chemicals
<b>NZIoC</b>	- New Zealand Inventory of Chemicals

**15.2. Chemical safety assessment****Chemical Safety Report**

A Chemical Safety Assessment has 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**

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

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)

Ceiling Maximum limit value

+ Sensitizers

STEL

\*

STEL (Short Term Exposure Limit)

Skin designation

**Classification procedure**

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

Acute oral toxicity

Acute dermal toxicity

Acute inhalation toxicity - gas

Acute inhalation toxicity - vapor

Acute inhalation toxicity - dust/mist

Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory sensitization

Skin sensitization

Mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Acute aquatic toxicity

Chronic aquatic toxicity

Aspiration hazard

Ozone

Method Used

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

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) (AELG(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 05/03/2024

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 section 3 H302 - Harmful if swallowed H315 - Causes skin irritation H318 - Causes serious eye damage H400 - Very toxic to aquatic life H411 - Toxic to aquatic life with long lasting effects

Chemical name	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides	Aquatic Chronic 2 (H411) Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	