SAFETY DATA SHEET

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

Revision date 03/07/2024 **Revision Number** 1

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

1.1. Product identifier

Product Code(s) 875001

Safety data sheet number 0000060

Product Name The Original Cleaning Paste

Pure substance/mixture Mixture

Formula 8750F2

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

Recommended use Cleaning saucepans, ovens, sinks, BBQs, shower units, glass doors, kitchen surfaces, and more.

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

2.2. Label elements

Hazard statements

Unknown aquatic toxicity Contains 0.19165 % 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 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)
Silica Flour 14808-60-7	50 - <100%	238-878-4	-	STOT RE 1 (H372)	-	-	-
WATER -	25 - <50%	-	-	-	-	-	-
Vegetable Soap Prills 85408-69-1	2.5 - <5%	287-032-0	-	-	-	-	-
Sodium Silicate 1344-09-8	0.5 - <1%	215-687-4	-	Skin Corr. 1B (H314) Met. Corr. 1 (H290) Eye Dam. 1 (H318)	-	-	-
Glycerol 56-81-5	0.5 - <1%	200-289-5	-	-	-	-	-
Alcohols, C12-15, ethoxylated 68131-39-5	0.5 - <1%	-	-	Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Eye Dam. 1 (H318)	-	-	-
Didecyldimethylammonium chloride 7173-51-5	0.025 - <0.25%	(612-131-00-6) 230-525-2	-	Aquatic Chronic 2 (H411) Skin Corr. 1B (H314) Aquatic Acute 1 (H400) Acute Tox. 4 (H302)	-	-	-

				Eye Dam. 1 (H318)			
Isopropanol 67-63-0	0.025 - <0.25%	(603-117-00 -0) 200-661-7	-	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	-	-	-
d-Limonene 5989-27-5	<0.025%	227-813-5	-	Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Hexyl Salicylate 6259-76-3	<0.025%	228-408-6	-	Skin Sens. 1 (H317) Aquatic Chronic 1 (H410) Repr. 2 (H361) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
Linalool 78-70-6	<0.025%	201-134-4	-	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
2-tert-Butylcyclohex yl acetate 88-41-5	<0.025%	201-828-7	-	Aquatic Chronic 2 (H411)	-	-	-
3-octanol, 3,7-dimethyl 78-69-3	<0.025%	201-133-9	-	Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
Geraniol 106-24-1	<0.025%	203-377-1	-	Skin Sens. 1 (H317) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	-	-	-
gamma-Undecalact one 104-67-6	<0.025%	203-225-4	-	Aquatic Chronic 3 (H412)	-	-	-
D&C Red 33 -	<0.025%	-	-	-	-	-	-
2,6-dimethyloct-7-en -2-ol 18479-58-8	<0.025%	242-362-4	-	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
Allyl Heptylate 142-19-8	<0.025%	205-527-1	-	Aquatic Chronic 3 (H412) Aquatic Acute 1 (H400) Acute Tox. 3 (H311) Acute Tox. 3 (H301) Acute Tox. 3 (H331)	-	-	-
2,6-di-tert-butyl-p-cr esol 128-37-0	<0.025%	204-881-4	-	Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400)	-	-	-
Myrcene 123-35-3	<0.025%	204-622-5	-	Aquatic Chronic 3 (H412) Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
DimethylCycloHex-3 -ene-1-Carboxaldeh yde 68039-49-6	<0.025%	268-264-1	-	Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Allyl hexanoate 123-68-2	<0.025%	204-642-4	-	Aquatic Chronic 3 (H412) Aquatic Acute 1 (H400)	-	-	-

				Acute Tox. 3 (H311) Acute Tox. 3 (H301) Acute Tox. 3 (H331)			
cis-3-Hexenyl salicylate 65405-77-8	<0.025%	265-745-8	-	Aquatic Chronic 1 (H410)	-	-	-
Citral 5392-40-5	<0.025%	(605-019-00-3) 226-394-6	-	Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
alpha-Pinene 80-56-8	<0.025%	201-291-9	-	Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Dodecanenitrile 2437-25-4	<0.025%	219-440-1	-	Aquatic Chronic 1 (H410)	-	-	-
dl-Citronellol 106-22-9	<0.025%	203-375-0	-	Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
benzyl alcohol 100-51-6	<0.025%	(603-057-00-5) 202-859-9	-	Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	-	-	-

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. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin contact Wash 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 aider Use 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

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.

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.

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 Avoid contact with eyes.

General hygiene considerations Do not eat, drink or smoke when using this product. 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

Chemical name	United Kingdom
Silica Flour 14808-60-7	TWA: 0.1 mg/m^3 STEL: 0.3 mg/m^3
Glycerol 56-81-5	TWA: 10 mg/m^3 STEL: 30 mg/m^3
Isopropanol 67-63-0	TWA: 400 ppm TWA: 999 mg/m^3 STEL: 500 ppm STEL: 1250 mg/m^3
2,6-di-tert-butyl-p-cresol 128-37-0	TWA: 10 mg/m^3 STEL: 30 mg/m^3
Dodecanenitrile 2437-25-4	TWA: 5 mg/m^3 STEL: 15 mg/m^3 Sk*

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
Sodium Silicate 1344-09-8		1.59 mg/kg bw/day [4] [6]	5.61 mg/m^3 [4] [6]
Glycerol 56-81-5			56 mg/m^3 [5] [6]
Alcohols, C12-15, ethoxylated 68131-39-5		2080 mg/kg bw/day [4] [6]	294 mg/m^3 [4] [6]
Isopropanol 67-63-0		888 mg/kg bw/day [4] [6]	500 mg/m^3 [4] [6]
Hexyl Salicylate 6259-76-3		6.4 mg/kg bw/day [4] [6] 885 µg/cm2 [5] [6] 885 µg/cm2 [5] [7]	1.7 mg/m^3 [4] [6]
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/m^3 [4] [6] 16.5 mg/m^3 [4] [7]
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]
Geraniol		12.5 mg/kg bw/day [4] [6]	161.6 mg/m^3 [4] [6]

Chemical name	Oral	Dermal	Inhalation
106-24-1		11800 µg/cm2 [5] [6]	
gamma-Undecalactone 104-67-6		5.38 mg/kg bw/day [4] [6]	19 mg/m^3 [4] [6]
2,6-dimethyloct-7-en-2-ol 18479-58-8		20.8 mg/kg bw/day [4] [6]	73.5 mg/m^3 [4] [6]
Allyl Heptylate 142-19-8		0.84 mg/kg bw/day [4] [6]	2.97 mg/m^3 [4] [6]
2,6-di-tert-butyl-p-cresol 128-37-0		0.5 mg/kg bw/day [4] [6]	3.5 mg/m^3 [4] [6]
Allyl hexanoate 123-68-2		4.3 mg/kg bw/day [4] [6]	15 mg/m^3 [4] [6]
cis-3-Hexenyl salicylate 65405-77-8		0.9 mg/kg bw/day [4] [6]	1.59 mg/m^3 [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]
alpha-Pinene 80-56-8		0.542 mg/kg bw/day [4] [6]	3.8 mg/m^3 [4] [6]
Dodecanenitrile 2437-25-4		3.98 mg/kg bw/day [4] [6]	14 mg/m^3 [4] [6]
dl-Citronellol 106-22-9		327.4 mg/kg bw/day [4] [6] 2950 µg/cm2 [5] [7]	161.6 mg/m^3 [4] [6] 10 mg/m^3 [5] [6] 10 mg/m^3 [5] [7]

Notes

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

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Sodium Silicate 1344-09-8	0.8 mg/kg bw/day [4] [6]		1.38 mg/m^3 [4] [6]
Glycerol 56-81-5	229 mg/kg bw/day [4] [6]		33 mg/m^3 [5] [6]
Alcohols, C12-15, ethoxylated 68131-39-5	25 mg/kg bw/day [4] [6]		87 mg/m^3 [4] [6]
Isopropanol 67-63-0	26 mg/kg bw/day [4] [6]		89 mg/m^3 [4] [6]
Hexyl Salicylate 6259-76-3	0.3 mg/kg bw/day [4] [6]	442.5 µg/cm2 [5] [6] 442.5 µg/cm2 [5] [7]	0.4 mg/m^3 [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/cm2 [5] [6] 1.5 mg/cm2 [5] [7]	0.7 mg/m^3 [4] [6] 4.1 mg/m^3 [4] [7]
3-octanol, 3,7-dimethyl 78-69-3	1.58 mg/kg bw/day [4] [6]	190 µg/cm2 [5] [6]	2.75 mg/m^3 [4] [6]
Geraniol 106-24-1	13.75 mg/kg bw/day [4] [6]	11800 µg/cm2 [5] [6]	47.8 mg/m^3 [4] [6]
gamma-Undecalactone 104-67-6	2.7 mg/kg bw/day [4] [6]		4.68 mg/m^3 [4] [6]
2,6-dimethyloct-7-en-2-ol 18479-58-8	12.5 mg/kg bw/day [4] [6]		21.7 mg/m^3 [4] [6]
Allyl Heptylate 142-19-8	0.42 mg/kg bw/day [4] [6]		0.73 mg/m^3 [4] [6]
2,6-di-tert-butyl-p-cresol			0.86 mg/m^3 [4] [6]

Chemical name	Oral	Dermal	Inhalation
128-37-0			
Allyl hexanoate 123-68-2	2.1 mg/kg bw/day [4] [6]		3.7 mg/m^3 [4] [6]
cis-3-Hexenyl salicylate 65405-77-8	0.23 mg/kg bw/day [4] [6]		0.39 mg/m^3 [4] [6]
Citral 5392-40-5	0.6 mg/kg bw/day [4] [6]	140 µg/cm2 [5] [6]	2.7 mg/m^3 [4] [6]
alpha-Pinene 80-56-8	0.225 mg/kg bw/day [4] [6]		0.674 mg/m^3 [4] [6]
Dodecanenitrile 2437-25-4	1.42 mg/kg bw/day [4] [6]		2.1 mg/m^3 [4] [6]
dl-Citronellol 106-22-9	13.8 mg/kg bw/day [4] [6]	2950 µg/cm2 [5] [7]	47.8 mg/m^3 [4] [6] 10 mg/m^3 [5] [6] 10 mg/m^3 [5] [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
Sodium Silicate 1344-09-8	7.5 mg/L	7.5 mg/L	1 mg/L		
Glycerol 56-81-5	0.885 mg/L	8.85 mg/L	0.0885 mg/L		
Alcohols, C12-15, ethoxylated 68131-39-5	0.0514 mg/L	0.0014 mg/L	0.0051 mg/L	0.00014 mg/L	
Didecyldimethylammonium chloride 7173-51-5	1.1 µg/L	0.21 µg/L	0.11 µg/L	0.021 µg/L	
Isopropanol 67-63-0	140.9 mg/L	140.9 mg/L	140.9 mg/L		
Linalool 78-70-6	0.2 mg/L	2 mg/L	0.02 mg/L		
3-octanol, 3,7-dimethyl 78-69-3	0.0089 mg/L	0.089 mg/L	0.00089 mg/L		
Geraniol 106-24-1	0.0108 mg/L	0.108 mg/L	0.00108 mg/L		
gamma-Undecalactone 104-67-6	84 µg/L	58.5 µg/L	8.4 µg/L	5.85 µg/L	
2,6-dimethyloct-7-en-2-ol 18479-58-8	27.8 µg/L	0.278 mg/L	2.78 µg/L		
Allyl Heptylate 142-19-8	0.12 µg/L	1.2 µg/L	0.012 µg/L		
2,6-di-tert-butyl-p-cresol 128-37-0	0.199 µg/L	1.99 µg/L	0.0199 µg/L		
Allyl hexanoate 123-68-2	0.117 µg/L	1.17 µg/L	0.0117 µg/L		
cis-3-Hexenyl salicylate 65405-77-8	0.61 µg/L	6.1 µg/L	0.061 µg/L		

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Citral 5392-40-5	0.00678 mg/L	0.0678 mg/L	0.000678 mg/L		
alpha-Pinene 80-56-8	0.606 µg/L	3.03 µg/L	0.0606 µg/L	0.303 µg/L	
Dodecanenitrile 2437-25-4	1.08 µg/L	0.59 µg/L	0.108 µg/L	59 ng/L	
dl-Citronellol 106-22-9	0.0024 mg/L	0.024 mg/L	0.00024 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Sodium Silicate 1344-09-8			348 mg/L		
Glycerol 56-81-5	3.3 mg/kg sediment dw	0.33 mg/kg sediment dw	1000 mg/L	0.141 mg/kg soil dw	
Alcohols, C12-15, ethoxylated 68131-39-5	81.64 mg/kg sediment dw	8.16 mg/kg sediment dw	10 g/L	1 mg/kg soil dw	
Didecyldimethylammonium chloride 7173-51-5	61.86 mg/kg sediment dw	6.186 mg/kg sediment dw	0.14 mg/L	1.4 mg/kg soil dw	
Isopropanol 67-63-0	552 mg/kg sediment dw	552 mg/kg sediment dw	2251 mg/L	28 mg/kg soil dw	160 mg/kg food
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
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	
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	
gamma-Undecalactone 104-67-6	5.341 mg/kg sediment dw	0.534 mg/kg sediment dw	80 mg/L	1.019 mg/kg soil dw	66.7 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
Allyl Heptylate 142-19-8	0.012 mg/kg sediment dw	0.0012 mg/kg sediment dw	10 mg/L	0.00233 mg/kg soil dw	
2,6-di-tert-butyl-p-cresol 128-37-0	99.6 µg/kg sediment dw	9.96 µg/kg sediment dw	0.17 mg/L	47.69 µg/kg soil dw	8.33 mg/kg food
Allyl hexanoate 123-68-2	4.46 µg/kg sediment dw	0.446 µg/kg sediment dw	10 mg/L	0.825 µg/kg soil dw	47.56 mg/kg food
cis-3-Hexenyl salicylate 65405-77-8	0.11 mg/kg sediment dw	0.011 mg/kg sediment dw	10 mg/L	0.0217 mg/kg soil dw	40 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	
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
Dodecanenitrile 2437-25-4	0.208 mg/kg sediment dw	20.8 µg/kg sediment dw	0.00125 mg/L	40.9 µg/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	

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 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.

General hygiene considerations Do not eat, drink or smoke when using this product. Avoid contact with eyes.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Pink soft solid paste with smooth texture
Color	pink
Odor	Fruity/Citrus.
Odor threshold	Not applicable

Property	**Values**		**Remarks • Method**
Melting point / freezing point	No data available		None known
Initial boiling point and boiling range	> 100 °C		Not measured (>100°C)
Flammability	No data available		Does not ignite
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	No data available		pH (diluted solution): 9.0 - 10.5 (1% aqueous)
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	Silica Flour - Insoluble in Water	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	~1.6 @ 20°C		None known
Bulk density	No data available		
Liquid Density	No data available		
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.

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 Not an expected route of exposure.

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 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)	66,347.20 mg/kg
ATEmix (dermal)	26,459.30 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapor)	99,999.00 mg/l
ATEmix (inhalation-dust/mist)	99,999.000 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Vegetable Soap Prills	> 5000 mg/kg (Rat)	> 2 mL/kg (Rabbit)	-
Sodium Silicate	= 1960 mg/kg (Rat)	-	-
Glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L (Rat) 4 h
Alcohols, C12-15, ethoxylated	= 1600 mg/kg (Rat)	= 2500 mg/kg (Rabbit)	-
Didecyldimethylammonium chloride	= 84 mg/kg (Rat)	> 1000 mg/kg (Rat)	-
Isopropanol	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	> 10000 ppm (Rat) 6 h
d-Limonene	= 5200 mg/kg (Rat) = 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
Hexyl Salicylate	> 5 g/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Linalool	= 2790 mg/kg (Rat)	= 5610 mg/kg (Rabbit)	-
2-tert-Butylcyclohexyl acetate	= 4600 mg/kg (Rat)	-	-
3-octanol, 3,7-dimethyl	> 5 g/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Geraniol	= 3600 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
gamma-Undecalactone	= 18500 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
2,6-dimethyloct-7-en-2-ol	= 3600 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
Allyl Heptylate	= 500 mg/kg (Rat)	= 810 mg/kg (Rabbit)	-
2,6-di-tert-butyl-p-cresol	> 2930 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Myrcene	> 5 g/kg (Rat)	> 5 g/kg (Rabbit)	-
Allyl hexanoate	-	= 820 mg/kg (Rabbit)	-
cis-3-Hexenyl salicylate	= 5 g/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Citral	= 4960 mg/kg (Rat)	= 2250 mg/kg (Rabbit)	-
alpha-Pinene	= 3700 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Dodecanenitrile	> 2000 mg/kg (Rat)	-	-
dl-Citronellol	= 3450 mg/kg (Rat)	= 2650 mg/kg (Rabbit)	-

benzyl alcohol	= 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	> 4178 mg/m^3 (Rat) 4 h

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 Not considered to be harmful to aquatic life.

Unknown aquatic toxicity Contains 0.19165 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Silicate	-	LC50: 301 - 478mg/L (96h, Lepomis macrochirus) LC50: =3185mg/L (96h, Brachydanio rerio)	-	-
Glycerol	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-	-
Didecyldimethylammonium chloride	-	LC50: =0.97mg/L (96h, Danio rerio)	-	-

Isopropanol	EC50: >1000mg/L (96h, Desmodesmus subspicatus) EC50: >1000mg/L (72h, Desmodesmus subspicatus)	LC50: =9640mg/L (96h, Pimephales promelas) LC50: =11130mg/L (96h, Pimephales promelas) LC50: >1400000µg/L (96h, Lepomis macrochirus)	-	EC50: =13299mg/L (48h, Daphnia magna)
d-Limonene	-	LC50: 0.619 - 0.796mg/L (96h, Pimephales promelas) LC50: =35mg/L (96h, Oncorhynchus mykiss)	-	-
Linalool	EC50: =88.3mg/L (96h, Desmodesmus subspicatus)	LC50: =27.8mg/L (96h, Oncorhynchus mykiss)	-	EC50: =20mg/L (48h, Daphnia magna)
3-octanol, 3,7-dimethyl	EC50: =19mg/L (72h, Desmodesmus subspicatus) EC50: =2.7mg/L (96h, Pseudokirchneriella subcapitata) EC50: =6.2mg/L (96h, Desmodesmus subspicatus)	LC50: =8.9mg/L (96h, Danio rerio)	-	EC50: =3mg/L (48h, Daphnia magna) EC50: =320mg/L (48h, Daphnia magna) EC50: =8.5mg/L (48h, Daphnia magna) EC50: 4.78 - 8.87mg/L (48h, Daphnia magna) LC50: =6.2mg/L (48h, Daphnia magna)
Geraniol	-	LC50: =22mg/L (96h, Danio rerio)	-	-
2,6-di-tert-butyl-p-cresol	EC50: =6mg/L (72h, Pseudokirchneriella subcapitata) EC50: >0.42mg/L (72h, Desmodesmus subspicatus)	-	-	-
Allyl hexanoate	-	LC50: =0.117mg/L (96h, Danio rerio)	-	-
Citral	EC50: =16mg/L (72h, Desmodesmus subspicatus) EC50: =19mg/L (96h, Desmodesmus subspicatus)	-	-	EC50: =7mg/L (48h, Daphnia magna)
alpha-Pinene	-	LC50: =0.28mg/L (96h, Pimephales promelas)	-	LC50: =41mg/L (48h, Daphnia magna)
Dodecanenitrile	-	LC50: =0.43mg/L (96h, Pimephales promelas)	-	-
dl-Citronellol	-	-	-	EC50: =17mg/L (48h, Daphnia magna)
benzyl alcohol	-	LC50: =460mg/L (96h, Pimephales promelas) LC50: =10mg/L (96h, Lepomis macrochirus)	-	EC50: =23mg/L (48h, water flea)

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
Glycerol	-1.75
Didecyldimethylammonium chloride	2.58
Isopropanol	0.05
d-Limonene	4.38
Hexyl Salicylate	5.5
Linalool	2.9
3-octanol, 3,7-dimethyl	3.3
Geraniol	2.6
gamma-Undecalactone	3.6
2,6-dimethyloct-7-en-2-ol	3.25
Allyl Heptylate	3.97
2,6-di-tert-butyl-p-cresol	5.1
Myrcene	4.82
Allyl hexanoate	3.191
cis-3-Hexenyl salicylate	4.8
Citral	2.76
alpha-Pinene	4.1
dl-Citronellol	3.41
benzyl alcohol	1.05

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
Sodium Silicate	The substance is not PBT / vPvB
Glycerol	The substance is not PBT / vPvB
Alcohols, C12-15, ethoxylated	The substance is not PBT / vPvB
Didecyldimethylammonium chloride	The substance is not PBT / vPvB
Isopropanol	The substance is not PBT / vPvB
d-Limonene	The substance is not PBT / vPvB
Hexyl Salicylate	The substance is not PBT / vPvB
Linalool	The substance is not PBT / vPvB
3-octanol, 3,7-dimethyl	The substance is not PBT / vPvB
Geraniol	The substance is not PBT / vPvB
gamma-Undecalactone	The substance is not PBT / vPvB
2,6-dimethyloct-7-en-2-ol	The substance is not PBT / vPvB
Allyl Heptylate	The substance is not PBT / vPvB
2,6-di-tert-butyl-p-cresol	The substance is not PBT / vPvB
Myrcene	The substance is not PBT / vPvB
Allyl hexanoate	The substance is not PBT / vPvB
cis-3-Hexenyl salicylate	The substance is not PBT / vPvB
Citral	The substance is not PBT / vPvB
alpha-Pinene	The substance is not PBT / vPvB
Dodecanenitrile	The substance is not PBT / vPvB
dl-Citronellol	The substance is not PBT / vPvB
benzyl alcohol	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

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

Chemical name	Export Notification requirements
Didecyldimethylammonium chloride - 7173-51-5	I.1

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)

Chemical name	The Biocidal Products Regulations 2001 (as amended)
Didecyldimethylammonium chloride - 7173-51-5	Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 3: Veterinary hygiene Product-type 4: Food and feed area Product-type 6: Preservatives for products during storage Product-type 8: Wood preservatives Product-type 1: Human hygiene Product-type 10: Construction material preservatives Product-type 11: Preservatives for liquid-cooling and processing systems Product-type 12: Slimicides
Isopropanol - 67-63-0	Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 4: Food and feed area Product-type 1: Human hygiene
Geraniol - 106-24-1	Product-type 18: Insecticides, acaricides and products to control other arthropods Product-type 19: Repellents and attractants

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
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
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
H225 - Highly flammable liquid and vapor
H302 - Harmful if swallowed
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H372 - Causes damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very 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	
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 03/07/2024

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: H225 - Highly flammable liquid and vapor H302 - Harmful if swallowed H318 - Causes serious eye damage H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness H372 - Causes damage to organs through prolonged or repeated exposure H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects

Chemical name	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)
Silica Flour	STOT RE 1 (H372)	
Sodium Silicate	Skin Corr. 1B (H314) Met. Corr. 1 (H290) Eye Dam. 1 (H318)	
Alcohols, C12-15, ethoxylated	Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Eye Dam. 1 (H318)	

Didecyldimethylammonium chloride	Aquatic Chronic 2 (H411) Skin Corr. 1B (H314) Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Eye Dam. 1 (H318)	
Isopropanol	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	
d-Limonene	Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	
Hexyl Salicylate	Skin Sens. 1 (H317) Aquatic Chronic 1 (H410) Repr. 2 (H361) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	
Linalool	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	
2-tert-Butylcyclohexyl acetate	Aquatic Chronic 2 (H411)	
3-octanol, 3,7-dimethyl	Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	
Geraniol	Skin Sens. 1 (H317) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	
gamma-Undecalactone	Aquatic Chronic 3 (H412)	
2,6-dimethyloct-7-en-2-ol	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	
Allyl Heptylate	Aquatic Chronic 3 (H412) Aquatic Acute 1 (H400) Acute Tox. 3 (H311) Acute Tox. 3 (H301) Acute Tox. 3 (H331)	
2,6-di-tert-butyl-p-cresol	Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400)	
Myrcene	Aquatic Chronic 3 (H412) Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	
DimethylCycloHex-3-ene-1-Carboxaldehyde	Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	
Allyl hexanoate	Aquatic Chronic 3 (H412) Aquatic Acute 1 (H400) Acute Tox. 3 (H311) Acute Tox. 3 (H301) Acute Tox. 3 (H331)	
cis-3-Hexenyl salicylate	Aquatic Chronic 1 (H410)	
Citral	Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	
alpha-Pinene	Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	
Dodecanenitrile	Aquatic Chronic 1 (H410)	
dl-Citronellol	Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	

benzyl alcohol	Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	