

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

1.1. Product identifier

Product Name GRF81 GRANGERS LEATHER CONDITIONER

Safety data sheet number 04787

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

Recommended use Footwear or Leather Care Product

Uses advised against

1.3. Details of the supplier of the safety data sheet

Manufacturer

Grangers International Ltd
Enterprise Way
Duckmanton
Derbyshire
S44 5FD
United Kingdom

EU Authorised Representative:
Authorised Rep Compliance Ltd
Ground Floor, 71 Lower Baggot Street
Dublin
DO2 P593
Ireland
For further information, please contact

E-mail address info@grangersinternational.co.uk

1.4. Emergency telephone number

Emergency Telephone +44 (0)1773 521521 (MON-FRI 08.00-17.00 UK TIME)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

2.2. Label elements

Hazard statements

Precautionary Statements - EU (§28, 1272/2008)

P102 - Keep out of reach of children.

2.3. Other hazards**Other hazards**

No information available.

PBT & vPvB

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
WATER 7732-18-5	50 - <100%		231-791-2	
HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics -	10 - <25%		918-481-9	Asp. Tox. 1 (H304)
Paraffin waxes and hydrocarbon waxes 8002-74-2	10 - <25%		232-315-6	
Alcohols, C16-18 67762-27-0	1 - <2.5%		267-008-6	
Aminofunctional polysiloxanes 75718-16-0	1 - <2.5%			Skin Irrit. 2 (H315)
Tris(2-hydroxyethyl)amine 102-71-6	0.5 - <1%		203-049-8	
2-(2-butoxyethoxy)ethanol 112-34-5	0.5 - <1%		(603-096-00-8) 203-961-6	Eye Irrit. 2 (H319)
2,2'-iminodiethanol 111-42-2	0.025 - <0.25%		(603-071-00-1) 203-868-0	STOT RE 2 (H373) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)
pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	<0.025%		(613-344-00-7) 223-296-5	Aquatic Chronic 2 (H411) Aquatic Acute 1 (H400) Acute Tox. 2 (H330) Acute Tox. 4 (H302) Eye Dam. 1 (H318)
1,2-benzisothiazol-3(2H)-one 2634-33-5	<0.025%		(613-088-00-6) 220-120-9	Aquatic Chronic 2 (H411) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Acute Tox. 2 (H330) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)

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

No information available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
WATER 7732-18-5	89838.9	No data available	No data available	No data available	No data available
Paraffin waxes and hydrocarbon waxes 8002-74-2	5000	3600	No data available	No data available	No data available
Alcohols, C16-18 67762-27-0	10000	8000	No data available	No data available	No data available
Tris(2-hydroxyethyl)amine 102-71-6	4190	20000	No data available	No data available	No data available
2-(2-butoxyethoxy)ethanol 112-34-5	5660	2700	No data available	No data available	No data available
2,2'-iminodiethanol 111-42-2	780	13034.07	No data available	No data available	No data available
pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	500+	790+ 1800	0.5+	No data available	No data available
1,2-benzisothiazol-3(2H)-one 2634-33-5	1020	2000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult 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 thoroughly with water. Get medical attention.

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

Symptoms	Prolonged contact may cause redness and irritation.
Effects of Exposure	No information available.

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.

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 skin and eyes.

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 skin and eyes.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container closed when not in use.

7.3. Specific end use(s)

Specific use(s)

See section 1 for more information.

Risk Management Methods (RMM) No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Paraffin waxes and hydrocarbon waxes 8002-74-2	-	-	TWA: 2 mg/m ³	-	TWA: 2 mg/m ³ STEL: 6 mg/m ³
Tris(2-hydroxyethyl)amine 102-71-6	-	TWA: 0.8 ppm TWA: 5 mg/m ³ STEL 1.6 ppm STEL 10 mg/m ³ S+	TWA: 5 mg/m ³	-	-
2-(2-butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL 15 ppm STEL 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³
2,2'-iminodiethanol 111-42-2	-	TWA: 0.46 ppm TWA: 2 mg/m ³ STEL 0.92 ppm STEL 4 mg/m ³ H* Sh+	TWA: 0.2 ppm TWA: 1 mg/m ³ D*	TWA: 10 mg/m ³	TWA: 3 ppm TWA: 15 mg/m ³ *
pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	-	TWA: 1 mg/m ³ STEL 4 mg/m ³ H*	-	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Paraffin waxes and hydrocarbon waxes 8002-74-2	-	-	TWA: 2 mg/m ³ STEL: 4 mg/m ³	TWA: 2 mg/m ³	TWA: 1 mg/m ³
Tris(2-hydroxyethyl)amine 102-71-6	-	TWA: 5 mg/m ³ Ceiling: 10 mg/m ³ D*	TWA: 0.5 ppm TWA: 3.1 mg/m ³ STEL: 1 ppm STEL: 6.2 mg/m ³	S+ TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³
2-(2-butoxyethoxy)ethanol 112-34-5	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 100 mg/m ³ Ceiling: 100 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³ STEL: 101 mg/m ³ STEL: 15 ppm	TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³
2,2'-iminodiethanol 111-42-2	-	TWA: 5 mg/m ³ Ceiling: 10 mg/m ³	TWA: 0.46 ppm TWA: 2 mg/m ³ H* STEL: 0.92 ppm STEL: 4 mg/m ³	TWA: 3 ppm TWA: 5 mg/m ³ STEL: 6 ppm STEL: 30 mg/m ³ A*	TWA: 0.46 ppm TWA: 2 mg/m ³ iho*
pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	-	-	TWA: 1 mg/m ³ H* STEL: 2 mg/m ³	-	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Paraffin waxes and	TWA: 2 mg/m ³	-	-	TWA: 2 mg/m ³	-

hydrocarbon waxes 8002-74-2				STEL: 6 mg/m ³	
Tris(2-hydroxyethyl)amine 102-71-6	-	TWA: 1 mg/m ³	TWA: 1 mg/m ³ Peak: 1 mg/m ³	-	-
2-(2-butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm TWA: 68 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 67 mg/m ³	TWA: 67 mg/m ³ TWA: 10 ppm Peak: 15 ppm Peak: 100.5 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³
2,2'-iminodiethanol 111-42-2	TWA: 3 ppm TWA: 15 mg/m ³	TWA: 0.11 ppm TWA: 0.5 mg/m ³ Sh+ H*	TWA: 1 mg/m ³ Peak: 1 mg/m ³ *	TWA: 3 ppm TWA: 15 mg/m ³	-
pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	-	TWA: 0.2 mg/m ³ H*	TWA: 0.2 mg/m ³ Peak: 0.4 mg/m ³ *	-	-
1,2-benzisothiazol-3(2H)-o ne 2634-33-5	-	-	skin sensitizer	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Paraffin waxes and hydrocarbon waxes 8002-74-2	TWA: 2 mg/m ³ STEL: 6 mg/m ³	-	TWA: 2 mg/m ³	-	-
Tris(2-hydroxyethyl)amine 102-71-6	TWA: 5 mg/m ³ STEL: 15 mg/m ³	-	TWA: 5 mg/m ³	-	STEL: 10 mg/m ³ J+ TWA: 5 mg/m ³
2-(2-butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 66 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	STEL: 101.2 mg/m ³ STEL: 15 ppm TWA: 67.5 mg/m ³ TWA: 10 ppm
2,2'-iminodiethanol 111-42-2	TWA: 0.2 ppm TWA: 1 mg/m ³ STEL: 0.6 ppm STEL: 3 mg/m ³ Sk*	-	TWA: 1 mg/m ³ cute*	-	STEL: 6 ppm STEL: 30 mg/m ³ TWA: 3 ppm TWA: 15 mg/m ³ O*
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Paraffin waxes and hydrocarbon waxes 8002-74-2	-	-	-	TWA: 2 mg/m ³ STEL: 4 mg/m ³	TWA: 2 mg/m ³
Tris(2-hydroxyethyl)amine 102-71-6	-	-	-	TWA: 5 mg/m ³ STEL: 10 mg/m ³	-
2-(2-butoxyethoxy)ethanol 112-34-5	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³ Peau*	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 7.4 ppm TWA: 50 mg/m ³ STEL: 14.8 ppm STEL: 100 mg/m ³ H*	TWA: 10 ppm TWA: 68 mg/m ³ STEL: 20 ppm STEL: 102 mg/m ³	STEL: 100 mg/m ³ TWA: 67 mg/m ³
2,2'-iminodiethanol 111-42-2	-	-	-	TWA: 3 ppm TWA: 15 mg/m ³ STEL: 6 ppm STEL: 22.5 mg/m ³	TWA: 9 mg/m ³ skóra*
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Paraffin waxes and hydrocarbon waxes 8002-74-2	TWA: 2 mg/m ³	TWA: 2 mg/m ³ STEL: 6 mg/m ³	TWA: 2 mg/m ³ Ceiling: 6 mg/m ³	-	TWA: 2 mg/m ³
Tris(2-hydroxyethyl)amine 102-71-6	TWA: 5 mg/m ³	-	-	-	TWA: 5 mg/m ³
2-(2-butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 101.2 mg/m ³ STEL: 15 ppm	TWA: 67.5 mg/m ³ TWA: 10 ppm STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ Ceiling: 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³

2,2'-iminodiethanol 111-42-2	TWA: 1 mg/m ³ Cutânea*	-	-	TWA: 0.5 mg/m ³ TWA: 0.11 ppm STEL: 0.11 ppm STEL: 0.5 mg/m ³ K*	TWA: 0.2 ppm TWA: 1 mg/m ³ via dérmica*
pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	-	-	-	TWA: 1 mg/m ³ STEL: 2 mg/m ³ K*	-
Chemical name	Sweden		Switzerland	United Kingdom	
Paraffin waxes and hydrocarbon waxes 8002-74-2	-		TWA: 2 mg/m ³	TWA: 2 mg/m ³ STEL: 6 mg/m ³	
Tris(2-hydroxyethyl)amine 102-71-6	Vägledande KGV: 10 mg/m ³ Vägledande KGV: 1.6 ppm NGV: 5 mg/m ³ NGV: 0.8 ppm H*		TWA: 5 mg/m ³ STEL: 5 mg/m ³	-	
2-(2-butoxyethoxy)ethanol 112-34-5	Bindande KGV: 15 ppm Bindande KGV: 101 mg/m ³ NGV: 10 ppm NGV: 68 mg/m ³		TWA: 10 ppm TWA: 67 mg/m ³ STEL: 15 ppm STEL: 101 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	
2,2'-iminodiethanol 111-42-2	Vägledande KGV: 6 ppm Vägledande KGV: 30 mg/m ³ NGV: 3 ppm NGV: 15 mg/m ³ H*		S+ TWA: 1 mg/m ³ STEL: 1 mg/m ³ H*	-	
pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	-		TWA: 0.2 mg/m ³ STEL: 0.4 mg/m ³ H*	-	

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Paraffin waxes and hydrocarbon waxes 8002-74-2	-	(-)	-	-	-

Derived No Effect Level (DNEL) - Workers No information available

Chemical name	Oral	Dermal	Inhalation
Alcohols, C16-18 67762-27-0	-	200 mg/kg bw/day [4] [6] 400 mg/kg bw/day [4] [7] 1.124 mg/cm ² [5] [6] 1.124 mg/cm ² [5] [7]	237.76 mg/m ³ [4] [6] 237.76 mg/m ³ [4] [7] 6.52 mg/m ³ [5] [6] 6.52 mg/m ³ [5] [7]
Tris(2-hydroxyethyl)amine 102-71-6	-	7.5 mg/kg bw/day [4] [6] 140 µg/cm ² [5] [6]	1 mg/m ³ [5] [6]
2-(2-butoxyethoxy)ethanol 112-34-5	-	83 mg/kg bw/day [4] [6]	67.5 mg/m ³ [4] [6] 67.5 mg/m ³ [5] [6] 101.2 mg/m ³ [5] [7]
2,2'-iminodiethanol 111-42-2	-	0.13 mg/kg bw/day [4] [6]	0.75 mg/m ³ [4] [6] 0.5 mg/m ³ [5] [6]
1,2-benzisothiazol-3(2H)-one 2634-33-5	-	0.966 mg/kg bw/day [4] [6]	6.81 mg/m ³ [4] [6]

Derived No Effect Level (DNEL) - General Public No information available.

Chemical name	Oral	Dermal	Inhalation
Alcohols, C16-18 67762-27-0	75 mg/kg bw/day [4] [6] 75 mg/kg bw/day [4] [7]	200 mg/kg bw/day [4] [6] 200 mg/kg bw/day [4] [7] 0.562 mg/cm ² [5] [6] 0.562 mg/cm ² [5] [7]	118.88 mg/m ³ [4] [6] 118.9 mg/m ³ [4] [7] 0.652 mg/m ³ [5] [6] 0.652 mg/m ³ [5] [7]
Tris(2-hydroxyethyl)amine 102-71-6	3.3 mg/kg bw/day [4] [6]	70 µg/cm ² [5] [6]	0.4 mg/m ³ [5] [6]
2-(2-butoxyethoxy)ethanol 112-34-5	5 mg/kg bw/day [4] [6]	-	40.5 mg/m ³ [4] [6] 40.5 mg/m ³ [5] [6] 60.7 mg/m ³ [5] [7]
2,2'-iminodiethanol 111-42-2	0.06 mg/kg bw/day [4] [6]	-	0.125 mg/m ³ [4] [6] 0.125 mg/m ³ [5] [6]
1,2-benzisothiazol-3(2H)-one 2634-33-5	-	-	1.2 mg/m ³ [4] [6]

Predicted No Effect Concentration (PNEC) No information available.

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Alcohols, C16-18 67762-27-0	0.13 mg/L	1 mg/L	0.12 mg/L	-	-
Tris(2-hydroxyethyl)amine 102-71-6	0.32 mg/L	5.12 mg/L	0.032 mg/L	-	-
2-(2-butoxyethoxy)ethanol 112-34-5	1.1 mg/L	11 mg/L	0.11 mg/L	-	-
2,2'-iminodiethanol 111-42-2	0.021 mg/L	0.095 mg/L	0.002 mg/L	-	-
1,2-benzisothiazol-3(2H)-one 2634-33-5	4.03 µg/L	1.1 µg/L	0.403 µg/L	110 ng/L	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Alcohols, C16-18 67762-27-0	13.61 mg/kg sediment dw	1.361 mg/kg sediment dw	1000 mg/L	100 mg/kg soil dw	86.7 mg/kg food
Tris(2-hydroxyethyl)amine 102-71-6	1.7 mg/kg sediment dw	0.17 mg/kg sediment dw	10 mg/L	0.151 mg/kg soil dw	-
2-(2-butoxyethoxy)ethanol 112-34-5	4.4 mg/kg sediment dw	0.44 mg/kg sediment dw	200 mg/L	0.32 mg/kg soil dw	56 mg/kg food
2,2'-iminodiethanol 111-42-2	0.092 mg/kg sediment dw	0.0092 mg/kg sediment dw	100 mg/L	1.63 mg/kg soil dw	1.04 mg/kg food
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	-

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Appropriate eye/face protection should be selected and used according to the chemical

nature, hazards and use of this product and safety requirements of the local jurisdiction.

Hand protection Appropriate hand protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

Skin and body protection Appropriate skin and body protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

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.

Thermal hazards

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Coloured cream
Physical state	Liquid
Color	Light (or pale), yellow
Odor	Mild, Characteristic
Odor threshold	

<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
SADT (°C)	No data available	None known
pH	No data available	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	Slightly soluble 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	~ 0.9 @ 21°C	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	No data available	None known
Particle characteristics		
Particle Size		
Particle Size Distribution		

9.2. Other information

9.2.1. Information with regard to physical hazard classes

9.2.2. Other safety characteristics

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

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 Heat.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Inhalation No known effects under normal use conditions. No hazard from product as supplied.

Eye contact Causes eye irritation.

Skin contact Repeated exposure may cause skin dryness or cracking.

Ingestion May cause irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Prolonged contact may cause redness and irritation.

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

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

Numerical measures of toxicity No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
WATER	> 90 mL/kg (Rat)	-	-
Paraffin waxes and hydrocarbon waxes	> 5000 mg/kg (Rat)	> 3600 mg/kg (Rabbit)	-
Alcohols, C16-18	> 10000 mg/kg (Rat)	> 8000 mg/kg (Rabbit)	> 0.012 ppm (Rat) 6 h
Tris(2-hydroxyethyl)amine	= 4190 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	-
2-(2-butoxyethoxy)ethanol	= 5660 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-
2,2'-iminodiethanol	= 780 mg/kg (Rat)	= 11.9 mL/kg (Rabbit)	-
pyridine-2-thiol 1-oxide, sodium salt	-	= 1800 mg/kg (Rabbit)	-
1,2-benzisothiazol-3(2H)-one	= 1020 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

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.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

11.2.2. Other information

Other adverse effects**SECTION 12: Ecological information****12.1. Toxicity****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Alcohols, C16-18	-	-	-	EC50: =1666mg/L (48h, Daphnia magna)
Tris(2-hydroxyethyl)amine	EC50: =216mg/L (72h, Desmodesmus subspicatus) EC50: =169mg/L (96h, Desmodesmus subspicatus)	LC50: 10600 - 13000mg/L (96h, Pimephales promelas) LC50: >1000mg/L (96h, Pimephales promelas) LC50: 450 - 1000mg/L (96h, Lepomis macrochirus)	-	-
2-(2-butoxyethoxy)ethanol	EC50: >100mg/L (96h, Desmodesmus subspicatus)	LC50: =1300mg/L (96h, Lepomis macrochirus)	-	EC50: >100mg/L (48h, Daphnia magna)
2,2'-iminodiethanol	EC50: =7.8mg/L (72h, Desmodesmus subspicatus) EC50: 2.1 - 2.3mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 4460 - 4980mg/L (96h, Pimephales promelas) LC50: 1200 - 1580mg/L (96h, Pimephales promelas) LC50: 600 - 1000mg/L (96h, Lepomis macrochirus)	-	EC50: =55mg/L (48h, Daphnia magna)
pyridine-2-thiol 1-oxide, sodium salt	-	-	-	EC50: =0.022mg/L (48h, water flea)

12.2. Persistence and degradability**Persistence and degradability** No information available.**12.3. Bioaccumulative potential****Bioaccumulation** No information available.

Chemical name	Partition coefficient
Alcohols, C16-18	6.65
Tris(2-hydroxyethyl)amine	-2.53
2-(2-butoxyethoxy)ethanol	1
2,2'-iminodiethanol	-2.46
pyridine-2-thiol 1-oxide, sodium salt	-2.38
1,2-benzisothiazol-3(2H)-one	0.99

12.4. Mobility in soil**Mobility in soil** No information available.**12.5. Results of PBT and vPvB assessment**

PBT and vPvB assessment Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
Paraffin waxes and hydrocarbon waxes	The substance is not PBT / vPvB
Alcohols, C16-18	The substance is not PBT / vPvB
Tris(2-hydroxyethyl)amine	The substance is not PBT / vPvB
2-(2-butoxyethoxy)ethanol	The substance is not PBT / vPvB
2,2'-iminodiethanol	The substance is not PBT / vPvB
1,2-benzisothiazol-3(2H)-one	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

12.7. Other adverse effects

Other adverse effects No information available.

PMT or vPvM properties Based on available data, the classification criteria are not met.

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

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

ADN

- 14.1 UN number or ID number No information available
- 14.2 UN proper shipping name Not regulated
- 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group No information available
- 14.5 Environmental hazard Not applicable
- 14.6 Special precautions for user
Special Provisions No information available

SECTION 15: Regulatory information

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

Chemical name	French RG number
Paraffin waxes and hydrocarbon waxes - 8002-74-2	RG 36
Tris(2-hydroxyethyl)amine - 102-71-6	RG 49
2-(2-butoxyethoxy)ethanol - 112-34-5	RG 84
2,2'-iminodiethanol - 111-42-2	RG 49, RG 49bis
1,2-benzisothiazol-3(2H)-one - 2634-33-5	RG 65

Water hazard class (WGK) non-hazardous to water (nwg)

Chemical Prohibition Ordinance (ChemVerbotsV) Not applicable

TRGS 905 Not applicable

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 Not applicable
Storage of Hazardous Material Not applicable
WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20 Not applicable
Major Accidents Ordinance SR 814.012 Not applicable

European Union

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.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV

2-(2-butoxyethoxy)ethanol - 112-34-5	55. 75.	-
2,2'-iminodiethanol - 111-42-2	75.	-
pyridine-2-thiol 1-oxide, sodium salt - 3811-73-2	75.	-
1,2-benzisothiazol-3(2H)-one - 2634-33-5	75.	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable.

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
pyridine-2-thiol 1-oxide, sodium salt - 3811-73-2	Product-type 2: Disinfectants and algacides not intended for direct application to humans or animals Product-type 6: Preservatives for products during storage Product-type 7: Film preservatives Product-type 9: Fiber, leather, rubber and polymerized materials preservatives Product-type 10: Construction material preservatives Product-type 13: Working or cutting fluid preservatives
1,2-benzisothiazol-3(2H)-one - 2634-33-5	Product-type 2: Disinfectants and algacides not intended for direct application to humans or animals Product-type 6: Preservatives for products during storage Product-type 9: Fiber, leather, rubber and polymerized materials preservatives Product-type 11: Preservatives for liquid-cooling and processing systems Product-type 12: Slimecidicides Product-type 13: Working or cutting fluid preservatives

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
TCSI	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
- TCSI** - Taiwan Chemical Substance Inventory

15.2. Chemical safety assessment

Chemical Safety Report

No information available

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of any hazard and/or precautionary statements referred to under Sections 2-15**

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H373 - May cause damage to organs through prolonged or repeated exposure

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)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

Sk*

Skin designation

+ Sensitizers

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)

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)

U.S. 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

Prepared By

Technical Department

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Disclaimer

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End of Safety Data Sheet