SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 as amended, and Regulation (EC) No. 1272/2008

Revision date 03/06/2026 **Revision Number** 1

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

1.1. Product identifier

Safety data sheet number 000155

Product Name GRF207 GRANGERS Down Wash Kit

Other means of identification

Unique Formula Identifier (UFI) D0Q1-TK7E-250V-T30U

Pure substance/mixture Mixture

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

Recommended use Detergent

Uses advised against No information available

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 technical@grangers.co.uk

1.4. Emergency telephone number

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

Emergency Telephone - §45 - (EC)1272/2008	
Europe	**112**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage	Category 2 - (H319)

2.2. Label elements

EU Detergent statement in accordance with Regulation (EC) No 648/2004: Contains <5 % Non-ionic Surfactant. Preservative (1,2-benzisothiazol-3(2H)-one)

Signal word
Warning

Hazard statements
H319 - Causes serious eye irritation.
EUH208 - Contains 1,2-benzisothiazol-3(2H)-one May produce an allergic reaction.

Precautionary Statements - EU (§28, 1272/2008)
P102 - Keep out of reach of children.
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Other hazards No information available.

PBT or vPvB properties This product does not contain any substances that are assessed to be a PBT or a vPvB.

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical name	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
WATER 7732-18-5	50 - <100%	No data available	231-791-2	No data available	-	-	-	-
didecyldimethylammonium chloride 7173-51-5	0.025 - <0.25%	No data available	(612-131-00-6) 230-525-2	Acute Tox. 4 (H302) Skin Corr. 1B (H314)	-	-	-	-
propan-2-ol 67-63-0	0.025 - <0.25%	No data available	(603-117-00-0) 200-661-7	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)	-	-	-	-

				STOT SE 3 (H336)				
pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	<0.025%	No data available	223-296-5 (613-344-00-7)	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Acute Tox. 3 (H331) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411) (EUH070)	-	100	100	-
1,2-benzisothiazol-3(2H)-one 2634-33-5	<0.025%	No data available	(613-088-00-6) 220-120-9	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1A (H317) Eye Dam. 1 (H318) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Skin Sens. 1A :: C>=0.036%	1	1	-

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

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

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
didecyldimethylammonium chloride 7173-51-5	84	1001	No data available	No data available	No data available
propan-2-ol 67-63-0	4710	4059	No data available	30.1303	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	450 + 1020	2002	0.21 +	No data available	No data available

+ This value is the harmonized acute toxicity estimate (ATE) listed in CLP Annex VI, Part 3. This harmonized ATE value must be used when calculating the acute toxicity estimate (ATEmix) for classifying a mixture containing the listed substance

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (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. Get medical attention immediately if symptoms occur.
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 off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. May cause an allergic skin reaction.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms	Burning. Burning sensation. May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation. May cause allergic skin reaction.
Effects of Exposure	No information available.

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.
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, eyes or clothing. Use personal protective equipment as required.
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 Prevent further leakage or spillage if safe to do so.

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 Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Following product recovery, flush area with water.

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 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

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

Chemical name	Austria	Belgium	Bulgaria	Croatia
propan-2-ol 67-63-0	TWA-TMW: 200 ppm; TWA-TMW: 500 mg/m³; STEL-KZGW: 800 ppm (4 X 15 min); STEL-KZGW: 2000 mg/m³ (4 X 15 min); C	TWA: 200 ppm; TWA: 500 mg/m³; STEL: 400 ppm; STEL: 1000 mg/m³;	TWA: 980.0 mg/m³; STEL: 1225.0 mg/m³;	TWA-GVI: 400 ppm; TWA-GVI: 999 mg/m³; STEL-KGVI: 500 ppm; STEL-KGVI: 1250 mg/m³;

pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	TWA-TMW: 1 mg/m³; STEL-KZGW: 4 mg/m³ (4 X 15 min); Sk	-	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia
propan-2-ol 67-63-0	-	TWA: 500 mg/m³; Ceiling: 1000 mg/m³; pSk	TWA: 200 ppm; TWA: 490 mg/m³; STEL: 400 ppm; STEL: 980 mg/m³;	TWA: 150 ppm; TWA: 350 mg/m³; STEL: 250 ppm; STEL: 600 mg/m³;
pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	-	-	TWA: 1 mg/m³; STEL: 2 mg/m³; pSk	-
Chemical name	Finland	France	Germany TRGS	Germany DFG
propan-2-ol 67-63-0	TWA: 200 ppm; TWA: 500 mg/m³; STEL: 250 ppm; STEL: 620 mg/m³;	STEL-VLCT: 400 ppm; STEL-VLCT: 980 mg/m³;	TWA-AGW; 200 ppm (2(II)); TWA-AGW; 500 mg/m³ (2(II));	TWA-MAK: 200 ppm; II(2); TWA-MAK: 500 mg/m³; II(2);
pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	-	-	TWA-AGW; 0.2 mg/m³ (2(II)); inhalable fraction Sk	TWA-MAK: 0.2 mg/m³; II(2); inhalable fraction
Chemical name	Greece	Hungary	Italy MDLPS	Italy AIDII
propan-2-ol 67-63-0	TWA: 400 ppm; TWA: 980 mg/m³; STEL: 500 ppm; STEL: 1225 mg/m³;	TWA-AK: 500 mg/m³; TWA-AK: 200 ppm; STEL-CK: 1000 mg/m³; STEL-CK: 400 ppm; pSk	-	TWA: 200 ppm; TWA: 492 mg/m³; STEL (REL): 400 ppm; STEL (REL): 983 mg/m³;
Chemical name	Ireland	Latvia	Lithuania	Luxembourg
propan-2-ol 67-63-0	TWA: 200 ppm; STEL: 400 ppm; pSk	TWA: 350 mg/m³; STEL: 600 mg/m³;	TWA-IPRD: 150 ppm; TWA-IPRD: 350 mg/m³; STEL-TPRD: 250 ppm; STEL-TPRD: 600 mg/m³;	-
Chemical name	Malta	Netherlands	Norway	Poland
propan-2-ol 67-63-0	-	-	TWA: 100 ppm; TWA: 245 mg/m³; STEL: 150 ppm (value calculated); STEL: 306.25 mg/m³ (value calculated);	TWA-NDS: 900 mg/m³; STEL-NDSCh: 1200 mg/m³; Sk
Chemical name	Portugal	Romania	Slovakia	Slovenia
propan-2-ol 67-63-0	TWA (VLE-MP): 200 ppm; STEL (VLE-CD): 400 ppm;	TWA: 81 ppm; TWA: 200 mg/m³; STEL: 203 ppm; STEL: 500 mg/m³;	TWA: 200 ppm; TWA: 500 mg/m³; Ceiling: 1000 mg/m³;	TWA: 200 ppm; TWA: 500 mg/m³; STEL: 400 ppm; STEL: 1000 mg/m³;
pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	-	-	-	TWA: 1 mg/m³; inhalable fraction STEL: 2 mg/m³; inhalable fraction pSk
Chemical name	Spain	Sweden	Switzerland	United Kingdom
propan-2-ol 67-63-0	TWA-(VLA-ED): 200 ppm; TWA-(VLA-ED): 500 mg/m³; STEL (VLA-EC): 400 ppm; STEL (VLA-EC): 1000	TLV-NGV: 150 ppm; TLV-NGV: 350 mg/m³; STEL (Vägledande KGV): 250 ppm; STEL (Vägledande KGV): 600 mg/m³;	TWA-MAK: 200 ppm; TWA-MAK: 500 mg/m³; STEL-KZGW: 400 ppm; STEL-KZGW: 1000 mg/m³;	TWA: 400 ppm; TWA: 999 mg/m³; STEL: 500 ppm; STEL: 1250 mg/m³;

	mg/m³;			
pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	-	-	TWA-MAK: 0.2 mg/m³; inhalable dust STEL-KZGW: 0.4 mg/m³; inhalable dust Sk	-

Note See section 16 for terms and abbreviations

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
propan-2-ol 67-63-0	-	-	-	50 mg/L - blood (Acetone) - at the end of the work shift 50 mg/L - urine (Acetone) - at the end of the work shift	-

Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
propan-2-ol 67-63-0	-	-	-	25 mg/L (whole blood - Acetone end of exposure or shift) 25 mg/L (urine - Acetone end of exposure or shift) 25 mg/L - BAT (end of exposure or end of shift) urine 25 mg/L - BAT (end of exposure or end of shift) blood	25 mg/L (whole blood - Acetone end of exposure or shift) 25 mg/L (urine - Acetone end of exposure or shift)

Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII
propan-2-ol 67-63-0	-	40 mg/L (urine - Acetone end of shift at end of workweek)	-	40 mg/L - urine (Acetone) - end of shift at end of workweek

Chemical name	Latvia	Luxembourg	Romania	Slovakia
propan-2-ol 67-63-0	25 mg/L - urine (Acetone) - at the end of exposure or shift 25 mg/L - blood (Acetone) - at the end of exposure or shift	-	50 mg/L - urine (Acetone) - end of shift	-

Chemical name	Slovenia	Spain	Switzerland	United Kingdom
propan-2-ol 67-63-0	25 mg/L - blood (Acetone) - at the end of the work shift 25 mg/L - urine (Acetone) - at the end of the work shift	40 mg/L (urine - Acetone end of workweek)	25 mg/L (urine - Acetone end of shift) 0.4 mmol/L (urine - Acetone end of shift) 25 mg/L (whole blood - Acetone end of shift) 0.4 mmol/L (whole blood - Acetone end of shift)	-

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
propan-2-ol 67-63-0	-	888 mg/kg bw/day [4] [6]	500 mg/m³ [4] [6] 1000 mg/m³ [4] [7]

Chemical name	Oral	Dermal	Inhalation
1,2-benzisothiazol-3(2H)-one 2634-33-5	-	0.966 mg/kg bw/day [4] [6]	6.81 mg/m³ [4] [6]

Notes
[1]
[4] Systemic health effects.
[6] Long term.
[7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
propan-2-ol 67-63-0	26 mg/kg bw/day [4] [6] 51 mg/kg bw/day [4] [7]	-	89 mg/m³ [4] [6] 178 mg/m³ [4] [7]
1,2-benzisothiazol-3(2H)-one 2634-33-5	-	-	1.2 mg/m³ [4] [6]

Notes
[4] Systemic 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
didecyldimethylammonium chloride 7173-51-5	1.1 µg/L	0.21 µg/L	0.11 µg/L	0.021 µg/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
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	-
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. Tight sealing safety goggles.

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. Wear suitable gloves.
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	No information available.
Environmental exposure controls	No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid
Physical state	Liquid
Color	clear
Odor	Characteristic
Odor threshold	No information available

Property	**Values**		**Remarks • Method**
Melting point / freezing point	No data available		None known
Boiling point or initial boiling point and boiling range	No data available		None known
Flammability	No data available		None known
Lower and upper explosion limit/flammability limit			None known
Lower explosion limit	No data available		
Upper explosion limit	No data available		
Flash point	N/A		None known
Autoignition temperature	No data available		None known
Decomposition temperature			None known
SADT (°C)	No data available		None known
pH	No data available		pH (concentrated solution): 7.00 @ 21°C (+/- 1.00)
pH (as aqueous solution)	No data available		None known
Kinematic viscosity	No data available		None known
Dynamic viscosity	No data available		None known
Solubility	No data available		None known
Water solubility	No data available	Completely soluble in water	None known
Partition coefficient n-octanol/water (log value)	No data available		None known
Vapor pressure	No data available		None known
Density and/or relative density	No data available		None known
Bulk density	~ 1.0 kg/l		
Liquid Density	No data available		
Relative vapor density	No data available		None known
Particle characteristics			
Particle Size	No information available		
Particle Size Distribution	No information available		

9.2. Other information

9.2.1. Information with regard to physical hazard classes
No information available

9.2.2. Other safety characteristics
No information available

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 Do not freeze.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

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

Product Information

Inhalation Specific test data for the substance or mixture is not available. Inhalation of vapors in high concentration may cause irritation of respiratory system.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation.

Skin contact Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Burning. Burning sensation. May cause redness and tearing of the eyes. Prolonged contact

may cause redness and irritation. May cause allergic skin reaction.

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

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral)	35,714.30 mg/kg
ATEmix (dermal)	99,999.00 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapor)	99,999.000 mg/L
ATEmix (inhalation-dust/mist)	99,999.00 mg/L

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
WATER	> 90 mL/kg (Rat)	-	-
didecyldimethylammonium chloride	= 84 mg/kg (Rat)	> 1000 mg/kg (Rat)	-
propan-2-ol	4710 - 5840 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	> 10000 ppm (Rat) 6 h
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)	-

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 Causes eye irritation.

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 disruption for human health Based on available data, the classification criteria are not met.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

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

Aquatic toxicity

Component Information

Chemical name	Fish	Crustacea	Algae/aquatic plants	Toxicity to microorganisms
didecyldimethylammonium chloride	LC50: =0.97mg/L (96h, Danio rerio)	-	-	-
propan-2-ol	LC50: =9640mg/L (96h, Pimephales promelas) LC50: =11130mg/L (96h, Pimephales promelas) LC50: >1400000µg/L (96h, Lepomis macrochirus)	EC50: =13299mg/L (48h, Daphnia magna)	EC50: >1000mg/L (96h, Desmodesmus subspicatus) EC50: >1000mg/L (72h, Desmodesmus subspicatus)	-
pyridine-2-thiol 1-oxide, sodium salt	-	EC50: =0.022mg/L (48h, water flea)	-	-

12.2. Persistence and degradability No information available.

12.3. Bioaccumulative potential

Chemical name	Partition coefficient	Bioconcentration factor (BCF)	Trophic magnification factor (TMF)
didecyldimethylammonium chloride	2.58	-	-
propan-2-ol	0.05	-	-
pyridine-2-thiol 1-oxide, sodium salt	-2.38	-	-
1,2-benzisothiazol-3(2H)-one	0.99	-	-

12.4. Mobility in soil Soluble in water.

12.5. Results of PBT and vPvB assessment This product does not contain any substances that are assessed to be a PBT or a vPvB.

Chemical name	PBT and vPvB assessment
didecyldimethylammonium chloride	Not PBT/vPvB
propan-2-ol	Not PBT/vPvB
1,2-benzisothiazol-3(2H)-one	Not PBT/vPvB

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

12.7. 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	No information available

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

National regulations

France
Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
didecyldimethylammonium chloride 7173-51-5	RG 65
propan-2-ol 67-63-0	RG 84
1,2-benzisothiazol-3(2H)-one 2634-33-5	RG 65,RG 66

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

Chemical Prohibition Ordinance (ChemVerbotsV)
Not applicable.

TRGS 905 Not applicable

Switzerland
Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 Group I
Storage of Hazardous Material SC 8
WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20 Class B
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:
Use restricted. See item: 3.
This product contains one or more substance(s) 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
didecyldimethylammonium chloride 7173-51-5	75	-
propan-2-ol 67-63-0	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

Export Notification requirements
This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 649/2012 - Annex Number
didecyldimethylammonium chloride 7173-51-5	I.1

Ozone-depleting substances (ODS) Regulation (EU) 2024/590
Not applicable.

Biocidal Products Regulation (EU) No 528/2012 (BPR)

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
didecyldimethylammonium chloride 7173-51-5	Product-type 3: Veterinary hygiene Product-type 8: Wood preservatives Product-type 1: Human hygiene Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 6: Preservatives for products during storage Product-type 10: Construction material preservatives Product-type 11: Preservatives for liquid-cooling and processing systems Product-type 12: Slimicides
propan-2-ol 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
pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Product-type 2: Disinfectants and algaecides 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 algaecides 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: Slimicides Product-type 13: Working or cutting fluid preservatives

Explosives Precursors Marketing and Use (2019/1148)
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
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 Chemicals Inventory
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

Full text of any hazard and/or precautionary statements referred to under Sections 2-15
EUH070 - Toxic by eye contact
H225 - Highly flammable liquid and vapor
H302 - Harmful if swallowed
H311 - Toxic in contact with skin
H314 - Causes severe skin burns and eye damage
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
H331 - Toxic if inhaled
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
H411 - Toxic to aquatic life with long lasting effects
P102 - Keep out of reach of children
P280 - Wear protective gloves, protective clothing, eye protection and face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention

Key or legend to abbreviations and acronyms used in the safety data sheet
No information available

ACGIH	American Conference of Governmental Industrial Hygienists
AIDII	Italian Association of Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials

bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CLP	Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DFG	German Research Foundation
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
ECHA	European Chemicals Agency
EC Number	European Community number
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	U.S. Environmental Protection Agency
EWC	European Waste Codes
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MAK	Maximum Concentration at the Workplace
MAL	Measuring Technical Hygienic Air Needs
MARPOL	International Convention for the Prevention of Pollution from Ships
MDLPS	Ministry of Labor and Social Policy
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
REACH	Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
SVHC	Substance of very high concern

TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TRGS	Technical Rule for Hazardous Substances
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
C	Carcinogen
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

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
Chronic aquatic toxicity	Calculation method
Acute aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
U.S. 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)
U.S. 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)
Japan 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)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

Prepared By Technical Department

Revision date 03/06/2026

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Disclaimer
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End of Safety Data Sheet