



Formulation B (Snow Business ProFlake)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Reference number: Periodic review of SDS 16/10/2026
Issue date: 11/01/2016 Revision date: 16/10/2023 Supersedes version of: 06/10/2022 Version: 1.8

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

1.1. Product identifier

Product form : Mixture
Trade name : Formulation B (Snow Business ProFlake)
Product code : WP 1617
Type of product : Technical product, Mixture containing mainly : Chelating agent, Surface-active agents, Solvents
Product group : Blend

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
For professional use only
Use of the substance/mixture : Snow formulation (concentrate)

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Snow Business International Ltd
The Snow Mill,
Bridge Road,
Ebley,
Stroud,
Gloucestershire
GL5 4TR
United Kingdom

E-mail address of competent person responsible for the SDS : snow@snowbusiness.com

1.4. Emergency telephone number

Emergency number : +441453840077

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3	H226
Corrosive to metals, Category 1	H290
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336

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

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. May cause drowsiness or dizziness. Causes skin irritation. Causes serious eye damage.

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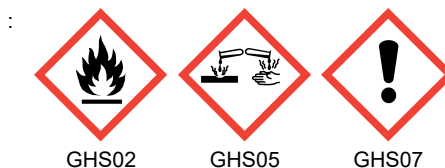
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2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

Extra phrases

- : Danger
- : D-glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides; propan-2-ol; isopropyl alcohol; isopropanol; benzenesulfonic acid, C10-13-alkyl derivs., sodium salts; 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts
- : H226 - Flammable liquid and vapour.
H290 - May be corrosive to metals.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H336 - May cause drowsiness or dizziness.
- : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing vapours, spray, mist.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.
P312 - Call doctor if you feel unwell.
- : For professional users only.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propan-2-ol; isopropyl alcohol; isopropanol	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25-XXXX	30 – 40	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	CAS-No.: 68411-30-3 EC-No.: 270-115-0 REACH-no: 01-2119489428-22-XXXX	5 – 10	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
methylglycine N,N-diacetic acid, trisodium salt (40% aqueous solution)	REACH-no: 01-0000016977-53	5 – 7	Met. Corr. 1, H290
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts	EC-No.: 931-296-8 REACH-no: 01-2119488533-30-XXXX	3 – 5	Eye Dam. 1, H318 Aquatic Chronic 3, H412

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Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
D-glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides	CAS-No.: 110615-47-9 EC-No.: 600-975-8	1 – 3	Skin Irrit. 2, H315 Eye Dam. 1, H318
propyl 4-hydroxybenzoate	CAS-No.: 94-13-3 EC-No.: 202-307-7	0.3 – 0.5	Aquatic Chronic 3, H412
methyl 4-hydroxybenzoate	CAS-No.: 99-76-3 EC-No.: 202-785-7	0.01 – 0.1	Aquatic Chronic 2, H411
sodium hydroxide; caustic soda	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892-27-XXXX	0.01 – 0.1	Met. Corr. 1, H290 Skin Corr. 1A, H314
polydimethylsiloxane	CAS-No.: 63148-62-9	< 0.01	Not classified
benzoic acid	CAS-No.: 65-85-0 EC-No.: 200-618-2 EC Index-No.: 607-705-00-8 REACH-no: 01-2119455536-33-XXXX	< 0.01	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 1, H372

Specific concentration limits:

Name	Product identifier	Specific concentration limits (Conc. (% w/w))
sodium hydroxide; caustic soda	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892-27-XXXX	(0.5 ≤ C < 2) Eye Irrit. 2, H319 (0.5 ≤ C < 2) Skin Irrit. 2, H315 (2 ≤ C < 5) Skin Corr. 1B, H314 (5 ≤ C < 100) Skin Corr. 1A, H314

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: If skin irritation occurs: Get medical advice/attention. Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water/.... Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Call a physician immediately. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: May cause an allergic skin reaction. May cause drowsiness or dizziness. Corrosive to the respiratory tract.
Symptoms/effects after skin contact	: Irritation. Causes skin irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol resistant foam. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour. Flammable liquid and vapour.
Explosion hazard : Heavier than air, vapours may travel long distances along ground, ignite and flash back to source. May form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak without risks if possible.
Methods for cleaning up : Take up liquid spill into absorbent material. Absorb and/or contain spill with inert material (vermiculite), then place in suitable container. Do not absorb in sawdust, paper, cloth or other combustible absorbents. Notify authorities if product enters sewers or public waters. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Absorb spillage to prevent material damage.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13. See Section 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable. May be corrosive to metals.
Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing vapours. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash Both hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment. Comply with applicable regulations.
Storage conditions	: Store in a well-ventilated place. Keep cool. Store locked up. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container tightly closed.
Incompatible products	: oxidizing agents (peroxides, chromates, dichromates). Strong bases. Strong acids.
Incompatible materials	: Refer to Section 10 on Incompatible Materials. Sources of ignition. Direct sunlight. Heat sources.
Packaging materials	: Store in corrosive resistant container with a resistant inner liner. Do not store in corrodable metal.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
United Kingdom - Occupational Exposure Limits	
Local name	Propan-2-ol
WEL TWA (OEL TWA) [1]	999 mg/m ³
WEL TWA (OEL TWA) [2]	400 ppm
WEL STEL (OEL STEL)	1250 mg/m ³
WEL STEL (OEL STEL) [ppm]	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
sodium hydroxide; caustic soda (1310-73-2)	
United Kingdom - Occupational Exposure Limits	
Local name	Sodium hydroxide
WEL STEL (OEL STEL)	2 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves. Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: straw yellow.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available

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Melting point	: Not applicable
Freezing point	: ~ -10 °C
Boiling point	: ≥ 85 °C
Flash point	: 23 °C

Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour.
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Density	: 0.946 g/cm ³
Solubility	: soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour. Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

Stable under normal conditions. Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition. Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases. metals. May be corrosive to metals.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : fume. Carbon monoxide. Carbon dioxide. May release flammable gases. Corrosive vapours.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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D-glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides (110615-47-9)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LD50 oral rat	5840 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	12800 mg/kg
LC50, male, female, Inhalation, rat	> 10000 ppm (6 Hours, (OECD 403 method))
propyl 4-hydroxybenzoate (94-13-3)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
methyl 4-hydroxybenzoate (99-76-3)	
LD50 oral	> 5600 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)	
LD50 oral rat	1080 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
sodium hydroxide; caustic soda (1310-73-2)	
LD50 oral	> 500 mg/kg Animal: rabbit
benzoic acid (65-85-0)	
LD50 oral	2250 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1875 - 2700
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit
LC50 Inhalation - Rat	> 12.2 mg/l air Animal: rat
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts	
LD50 oral rat	2335 mg/kg
LD50 dermal rat	> 2000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: May cause drowsiness or dizziness.
Additional information	: Corrosive to the respiratory tract.
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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D-glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides (110615-47-9)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
propyl 4-hydroxybenzoate (94-13-3)	
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
methyl 4-hydroxybenzoate (99-76-3)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Remarks on results: other:
benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)	
LOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat
NOAEL (dermal, rat/rabbit, 90 days)	2500 mg/kg bodyweight Animal: rat
NOAEL (subchronic, oral, animal/female, 90 days)	50 mg/kg bodyweight Animal: , Animal sex: female
benzoic acid (65-85-0)	
STOT-repeated exposure	Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation).
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Viscosity, kinematic	3.115 mm²/s
sodium hydroxide; caustic soda (1310-73-2)	
Viscosity, kinematic	Not applicable
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

D-glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides (110615-47-9)	
LC50 - Fish [1]	2.95 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
LC50 - Fish [2]	5.9 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	7 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	14 mg/l Test organisms (species): Daphnia magna
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LC50 - Fish [1]	9640 mg/l Test organisms (species): Fathead minnow (Pimephales promelas)
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): (Desmodesmus subspicatus)
EC50, daphnia, short term	9714 mg/l (24 Hours, (OECD 202 method))
EC5, microorganisms, Pseudomonas putida	1050 mg/l (16 Hours)

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propyl 4-hydroxybenzoate (94-13-3)	
LC50 - Fish [1]	6.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	15.4 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	16 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	7.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	0.25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
methyl 4-hydroxybenzoate (99-76-3)	
LC50 - Fish [1]	59.5 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	11.2 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	91 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	0.8 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
methylglycine N,N-diacetic acid, trisodium salt (40% aqueous solution)	
LC50 - Fish [1]	> 100 mg/l
benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)	
LC50 - Fish [1]	1.67 mg/l Test organisms (species): Lepomis macrochirus
LC50 - Fish [2]	2.88 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	2.9 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	1.18 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.23 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '72 d'
NOEC chronic crustacea	1.41 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
sodium hydroxide; caustic soda (1310-73-2)	
LC50 - Fish [1]	125 mg/l Test organisms (species): Western mosquitofish (Gambusia affinis)
LC50 - Fish [2]	45.5 mg/l Test organisms (species): Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	40.4 mg/l Test organisms (species): Ceriodaphnia sp.
EC50, microorganisms, (Photobacterium phosphoreum)	22 mg/l (15 minutes)
benzoic acid (65-85-0)	
LC50 - Fish [1]	47.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Fish [2]	44.6 mg/l Test organisms (species): Lepomis macrochirus
EC50 72h - Algae [1]	> 33.1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 120 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'

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1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts	
LC50 - Fish [1]	1.11 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	6.5 mg/l Test organisms (species): Daphnia magna
ErC50 algae	2.4 mg/l
NOEC chronic fish	0.135 mg/l
NOEC chronic crustacea	0.3 mg/l

12.2. Persistence and degradability

Formulation B (Snow Business ProFlake)	
Persistence and degradability	Not established.
D-glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides (110615-47-9)	
Persistence and degradability	Readily biodegradable.
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	1.19 – 1.72 g O ₂ /g substance
Chemical oxygen demand (COD)	2.23 g O ₂ /g substance
methylglycine N,N-diacetic acid, trisodium salt (40% aqueous solution)	
Persistence and degradability	Readily biodegradable.
benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)	
Persistence and degradability	Readily biodegradable.
sodium hydroxide; caustic soda (1310-73-2)	
Persistence and degradability	Not established.
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even numbered) acyl derivs., hydroxides, inner salts	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Formulation B (Snow Business ProFlake)	
Bioaccumulative potential	Not established.
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0.05
Bioaccumulative potential	No bioaccumulation.
methylglycine N,N-diacetic acid, trisodium salt (40% aqueous solution)	
Bioaccumulative potential	Bioaccumulation unlikely.
sodium hydroxide; caustic soda (1310-73-2)	
Bioaccumulative potential	No bioaccumulation.

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12.4. Mobility in soil

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

Surface tension	22.7 mN/m
Ecology - soil	Very mobile. Soluble material/quickly disperses in water.

methylglycine N,N-diacetic acid, trisodium salt (40% aqueous solution)

Mobility in soil	Adsorption to the solid soil particles is not expected.
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sodium hydroxide; caustic soda (1310-73-2)

Ecology - soil	Mobile. Soluble material/quickly disperses in water.
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12.5. Results of PBT and vPvB assessment

Component	
D-glucopyranose, oligomeric, C10-16(even numbered) alkyl glycosides (110615-47-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
methylglycine N,N-diacetic acid, trisodium salt (40% aqueous solution)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
sodium hydroxide; caustic soda (1310-73-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Additional information	: Flammable vapours may accumulate in the container. Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Avoid release to the environment.
HP Code	: HP3 - "Flammable:" – flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; – flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; – flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; – flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; – water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; – other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

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SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1987	UN 1987	UN 1987	UN 1987	UN 1987
14.2. UN proper shipping name				
ALCOHOLS, N.O.S.	ALCOHOLS, N.O.S.	Alcohols, n.o.s.	ALCOHOLS, N.O.S.	ALCOHOLS, N.O.S.
Transport document description				
UN 1987 ALCOHOLS, N.O.S., 3, III, (D/E)	UN 1987 ALCOHOLS, N.O.S., 3, III	UN 1987 Alcohols, n.o.s., 3, III	UN 1987 ALCOHOLS, N.O.S., 3, III	UN 1987 ALCOHOLS, N.O.S., 3, III
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 274, 601
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	:



Tunnel restriction code (ADR)	: D/E
EAC code	: •3Y

Transport by sea

Special provisions (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L

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Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: A

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3, A180
ERG code (IATA)	: 3L

Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 274, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 274, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	Formulation B (Snow Business ProFlake) ; propan-2-ol; isopropyl alcohol; isopropanol	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	Formulation B (Snow Business ProFlake) ; propan-2-ol; isopropyl alcohol; isopropanol ; benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
40.	propan-2-ol; isopropyl alcohol; isopropanol	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.
3(c)	benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

Safety Data Sheet applicable for regions : GB - United Kingdom

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.