AUTOMATIC FIRE SUPPRESSION SYSTEMS

BlazeCut Automatic Fire Suppression System

Safety Data Sheet

BlazeCut Fluorine-free Foam concentrate

According to Regulation (EU) No. 1907/2006 (REACH), Annex II
(COMMISSION REGULATION (EU) No 453/2010)

Version: SDS-FFF-2506-EN
Product name: BlazeCut Fluorine-free Foam

Compilation date: 2025-06-01
Revision date: -

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

1.1 Product identifier

Product name: BlazeCut Fluorine-free Foam

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

Identified uses: Firefighting agent.

Uses advised against: The product should not be used in ways other than those referred to in Section 1.

1.3 Details of the supplier of the SDS

Supplier: BlazeCut Pty Ltd.

Address: Level 24, Three International Towers, 300 Barangaroo Avenue, Sydney, NSW 2000, Australia

E-mail: technical@blazecutgroup.com

Telephone: +61 2 8006 1300

Distributor: To be input

Address: To be input

E-mail: To be input

Telephone: To be input

1.4 Emergency telephone number

+61 403 006 070 or call local emergency number.

2.1 Classification of the substance or mixture

In compliance with Regulation (EC) No 1272/2008[CLP]

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

Hazardous to the aquatic environment – Chronic Hazard, Category 3 **(H412)**

2.2 Label elements

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

Hazard pictogram(s): GHS05: Corrosive

Signal word: Danger

Hazard-determining components of labelling:

Sulfuric acid, mono-C12-14 (even numbered)-alkyl esters, compounds with triethanolamine D-Glucopyranose, oligomeric , C8-C10 glucosides, phosphinicobis [oxy(2-hydroxy-3,1-propanediyl)] ethers, sodium salts

1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C12-18(even numbered) acyl) derivs. hydroxides, inner salts

Hazard statements:

H315	Causes skin irritation
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects

Precautionary statements:

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / 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.

P310 Immediately call a POISON CENTER/doctor.

P362+P364 Take off contaminated clothing and wash it before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH208 Contains 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: This product does not contain any substances ≥ 0.1% that have been assessed as PBT.

vPvB: This product does not contain any substances ≥ 0.1% that have been assessed as vPvB.

Determination of endocrine-disrupting properties

This product does not contain substances with endocrine disrupting properties in a concentration of ≥0.1%

SECTION 3: Composition/information on ingredients

3.2 Mixture

CAS No	% [weight]	Name
112-34-5	**10 – 20**	2-(2-butoxyethoxy)ethanol
90583-18-9	**1 – < 10**	Sulfuric acid, mono-C12-14-alkyl esters
142-31-4	**1 – < 10**	Sodium octyl sulphate
147170-44-3	**1 – < 10**	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,Ndimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts
740817-98-5	**1 – < 3**	D-Glucopyranose, oligomeric , C8-C10 glucosides, phosphinicobis[oxy(2-hydroxy-3,1-propanediyl)] ethers, sodium salts
1469983-50-3	**1 – < 10**	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,Ndimethyl-3-sulfo-, N-(C12-18(even numbered) acyl) derivs. hydroxides, inner salts
3926-62-3	**> 0 – < 0.5**	sodium salt of chloroacetic acid
2682-20-4	**> 0 – < 0.01**	2-methyl-2H-isothiazol-3-one

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

Take affected persons out of danger area and lay down. Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration

Following inhalation:

If symptoms occur, move affected person to fresh air. If not breathing, give artificial respiration. If symptoms persist, get medical attention promptly.

Following skin contact:

Wash contaminated area with soap or mild detergent. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.

Following eye contact:

Check for and remove contact lens. Immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

Following ingestion:
Rinse out mouth and then drink plenty of water and consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed
No data available

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.
More information
The deterioration of the health status of exposure: There is no evidence that this product aggravates an existing medical condition.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:	Firefighting foam concentrate not flammable. Use fire extinguishing methods suitable to surrounding conditions.
Unsuitable extinguishing media:	Not available.

5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide
Carbon dioxide
Nitrogen oxides (NOx)
Sulphur oxides (SOx)

5.3 Advice for fire-fighters
Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Use personal protective equipment – impervious clothes, wear gloves and goggles. Follow the instructions in Sections 7 and 8.

6.2 Environmental precautions
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water

6.3 Methods and material for containment and cleaning up
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose of the material collected according to regulations

6.4 Reference to other Section's

See SECTION 7 for information on safe handling.

See SECTION 8 for information on personal protection equipment.

See SECTION 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Prevent formation of aerosols.

Information about fire and explosion protection: No special measures required**.**

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility: Store away from oxidising agents.

Further information about storage conditions:

Storage temperature 0 - 50 °C

Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol	
OEL (Ireland)	Short-term value: 101.2 mg/m³, 12 ppm Long-term value: 67.5 mg/m³, 10 ppm IOELV
IOELV (EU)	Short-term value: 101.2 mg/m³, 15 ppm Long-term value: 67.5 mg/m³, 10 ppm

DNELs		
CAS: 112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	DNEL(long/systemic)	5 mg/kg bw/day (Consumer) 50 mg/kg bw/day (Consumer)
Dermal	DNEL(long/systemic)	83 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/local)	40.5 mg/m³ (Consumer) 67.5 mg/m³ (Workers (Industrial/Professional))
	DNEL(long/systemic)	40.5 mg/m³ (Consumer) 67.5 mg/m³ (Workers (Industrial/Professional))
	DNEL(short/local)	60.7 mg/m³ (Consumer) 101.2 mg/m³ (Workers (Industrial/Professional))

CAS: 142-31-4 sodium octyl sulphate		
Oral	DNEL(long/systemic)	24 mg/kg bw/day (Consumer)
Dermal	DNEL(long/systemic)	2440 mg/kg bw/day (Consumer)
		4060 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/systemic)	85 mg/m3 (Consumer)
		285 mg/m3 (Workers (Industrial/Professional))
CAS: 147170-44-3 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts		
Oral	DNEL(long/systemic)	7.5 mg/kg bw/day (Consumer)
Dermal	DNEL(long/systemic)	7.5 mg/kg bw/day (Consumer)
		12.5 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/systemic)	13.04 mg/m3 (Consumer)
		44 mg/m3 (Workers (Industrial/Professional))
CAS: 740817-98-5 D-Glucopyranose, oligomeric , C8-C10 glucosides, phosphinicobis[oxy(2- hydroxy-3,1-propanediyl)] ethers, sodium salts		
Oral	DNEL(long/systemic)	0.952 mg/kg bw/day (Consumer)
Dermal	DNEL(long/systemic)	9520 mg/kg bw/day (Consumer)
		26700 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/systemic)	3.33 mg/m3 (Consumer)
		18.6 mg/m3 (Workers (Industrial/Professional))
CAS: 1469983-50-3 1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C12-18(even numbered) acyl) derivs. hydroxides, inner salts		
Oral	DNEL(long/systemic)	3 mg/kg bw/day (Consumer)
Dermal	DNEL(long/systemic)	3 mg/kg bw/day (Consumer)
		6 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/systemic)	5.2 mg/m^3 (Consumer)
		21.2 mg/m^3 (Workers (Industrial/Professional))
CAS: 3926-62-3 sodium salt of chloroacetic acid		
Oral	DNEL(long/systemic)	0.15 mg/kg bw/day (Consumer)
Dermal	DNEL(long/systemic)	3 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/local)	0.6 mg/m^3 (Consumer)
	DNEL(long/systemic)	1.2 mg/m^3 (Consumer)
		4.9 mg/m^3 (Workers (Industrial/Professional)) 7 mg/m3
	DNEL(short/systemic)	(Workers (Industrial/Professional))
CAS: 2682-20-4 2-methyl-2H-isothiazol-3-one		
Oral	DNEL(long/systemic)	0.027 mg/kg bw/day (Consumer)
	DNEL(short/systemic)	0.053 mg/kg bw/day (Consumer)
Inhalative	DNEL(long/local)	0.021 mg/m^3 (Consumer)
		0.021 mg/m^3 (Workers (Industrial/Professional))
	DNEL(short/local)	0.043 mg/m^3 (Consumer)
		0.043 mg/m^3 (Workers (Industrial/Professional))

PNECs	
CAS: 112-34-5 2-(2-butoxyethoxy)ethanol	
PNEC(aqua)	1.1 mg/L (freshwater)
	0.11 mg/L (marine water)
	11 mg/L (intermittent release)
PNEC(STP)	200 mg/L (sewage treatment plant)

PNEC(sediment)	4.4 mg/kg sedi. dw (freshwater)
	0.44 mg/kg sedi. dw (marine water)
PNEC(soil)	0.32 mg/kg soil dw (soil)
PNEC(oral)	56 mg/kg food (food)
CAS: 142-31-4 sodium octyl sulphate	
PNEC(aqua)	0.136 mg/L (freshwater)
	0.014 mg/L (marine water)
PNEC(STP)	1.35 mg/L (sewage treatment plant)
PNEC(sediment)	1.5 mg/kg sedi. dw (freshwater)
	0.15 mg/kg sedi. dw (marine water)
PNEC(soil)	0.22 mg/kg soil dw (soil)
CAS: 147170-44-3 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts	
PNEC(aqua)	0.013 mg/L (freshwater)
	0.001 mg/L (marine water)
PNEC(STP)	3000 mg/L (sewage treatment plant)
PNEC(sediment)	14.8 mg/kg sedi. dw (freshwater)
	1.48 mg/kg sedi. dw (marine water)
PNEC(soil)	0.8 mg/kg soil dw (soil)
CAS: 740817-98-5 D-Glucopyranose, oligomeric , C8-C10 glucosides, phosphinicobis[oxy(2- hydroxy-3,1-propanediyl)] ethers, sodium salts	
PNEC(aqua)	0.113 mg/L (freshwater)
	0.113 mg/L (marine water)
	0.0113 mg/L (intermittent release)
PNEC(sediment)	0.407 mg/kg sedi. dw (freshwater)
	0.0407 mg/kg sedi. dw (marine water)
PNEC(soil)	0.0151 mg/kg soil dw (soil)
CAS: 1469983-50-3 1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C12-18(even numbered) acyl) derivs. hydroxides, inner salts	
PNEC(aqua)	0.0075 mg/L (freshwater)
	0.00075 mg/L (marine water)
PNEC(STP)	100 mg/L (sewage treatment plant)
PNEC(sediment)	0.124 mg/kg sedi. dw (freshwater)
	0.0124 mg/kg sedi. dw (marine water)
PNEC(soil)	0.0204 mg/kg soil dw (soil)
CAS: 3926-62-3 sodium salt of chloroacetic acid	
PNEC(aqua)	0.00086 mg/L (freshwater)
	0.000086 mg/L (marine water)
PNEC(STP)	2 mg/L (sewage treatment plant)
PNEC(sediment)	0.00317 mg/kg sedi. dw (freshwater)
	0.000317 mg/kg sedi. dw (marine water)
PNEC(soil)	0.007 mg/kg soil dw (soil)
CAS: 2682-20-4 2-methyl-2H-isothiazol-3-one	
PNEC(aqua)	0.00339 mg/L (freshwater)
	0.00339 mg/L (marine water)
PNEC(STP)	0.23 mg/L (sewage treatment plant)
PNEC(soil)	0.047 mg/kg soil dw (soil)

8.2 Exposure controls

Appropriate engineering controls:

No further data; see section 7.

Personal protective equipment:

General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Store protective clothing separately.
Avoid contact with the eyes and skin.

Respiratory protection:

Not necessary if room is well-ventilated

Hand protection

Protective gloves
Only use chemical-protective gloves with CE-labelling of category III.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection

Tightly sealed goggles

Body protection:

Protective work clothing

Environmental exposure controls:

Observe the usual precautions to protect the environment, see section 6.2.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	**Liquid**
Form:	**Liquid**
Colour:	**Light yellow**
Odour:	**Characteristic**
Odour threshold:	**Not determined.**
Melting point/freezing point:	**Not determined.**
Boiling point or initial boiling point and boiling range	**Not determined.**

Lower and upper explosion limit

Lower:	**Not applicable.**
Upper:	**Not applicable.**
Flash point:	**Not determined.**
Auto-ignition temperature:	**Not determined.**
Decomposition temperature:	**Not determined**
pH at 20 °C	**6 - 9**
Viscosity:	
Kinematic viscosity	**Not determined.**
Dynamic at 20 °C:	**15 - 25 mPas**
Solubility	
water:	**Fully miscible.**

Partition coefficient n-octanol/water (log value)

112-34-5	2-(2-butoxyethoxy)ethanol	1 logPow (20°C, pH 7, OECD Guideline 117)
142-31-4	sodium octyl sulphate	≤ - 2,31 log Pow (calculated)
147170-44-3	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts	4,44 logPow ((Q)SAR)
740817-98-5	D-Glucopyranose, oligomeric , C8-C10 glucosides, phosphinicobis[oxy(2-hydroxy-3,1-propanediyl)] ethers, sodium salts	-2 (20°C, OECD Guideline 107)
1469983-50-3	1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C12-18(even numbered) acyl) derivs. hydroxides, inner salts	2,1 logPow (25°C, Read-Across to EC 939-455-3)
3926-62-3	sodium salt of chloroacetic acid	-3,8 (20°C, OECD Guideline 107)
2682-20-4	2-methyl-2H-isothiazol-3-one	- 0,486 logPow (20º C, OECD Guideline 107)

Vapour pressure:	**Not determined.**
Density and/or relative density	
Density at 20 °C:	**1.05 - 1.1 g/cm³**
Relative density	**Not determined.**
Vapour density	**Not determined.**
Relative gas density	**Not determined.**
Particle characteristics	**Not applicable.**

9.2 Other information

Explosive properties:	**Product does not present an explosion hazard.**
Refractive index	**1.39 - 1.43**
Oxidising properties	**No**
Evaporation rate	**Not determined**

SECTION 10: Stability and reactivity

10.1 Reactivity

not available

10.2 Chemical stability

No decomposition if used and stored according to specifications.

Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions
No dangerous reactions known.

10.4 Conditions to avoid
No data available.

10.5 Incompatible materials
No further relevant information available.

10.6 Hazardous decomposition products
No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
CAS: 112-34-5 2-(2-butoxyethoxy)ethanol		
Oral Dermal	LD50 LD50	2410 mg/kg (mouse) (OECD Guideline 401) 2764 mg/kg (rabbit) (OECD Guideline 402)
CAS: 90583-18-9 Sulfuric acid, mono-C12-14 (even numbered)-alkyl esters, compds.with triethanolamine		
Oral	LD50	1800 mg/kg
CAS: 142-31-4 sodium octyl sulphate		
Oral Dermal	LD50 LD50	2000 mg/kg (Rat) (OECD Guideline 423) 2000 mg/kg (Rat) (OECD Guideline 402)
CAS: 147170-44-3 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts		
Oral	LD50	2335 mg/kg (Rat)
CAS: 740817-98-5 D-Glucopyranose, oligomeric , C8-C10 glucosides, phosphinicobis[oxy(2- hydroxy-3,1-propanediyl)] ethers, sodium salts		
Oral Dermal	LD50 LD50	2000 mg/kg (Rat) (OECD Guideline 420) 2000 mg/kg (Rat) (OECD Guideline 402)
CAS: 1469983-50-3 1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C12-18(even numbered) acyl) derivs. hydroxides, inner salts		
Oral Dermal	LD50 LD50	2950 mg/kg (Rat) (OECD Guideline 401) 2000 mg/kg (Rat) (OECD Guideline 402)
CAS: 3926-62-3 sodium salt of chloroacetic acid		
Oral	LD50	95 mg/kg (Rat)
CAS: 2682-20-4 2-methyl-2H-isothiazol-3-one		
Oral Dermal Inhalative	LD50 LD50 LC50 (4h)	120 mg/kg (Rat) (EPA OPPTS 870.1100) 242 mg/kg (Rat) (OECD Guideline 402) 0.1 mg/L (Rat) (OECD Guideline 403, inhalation:aerosol)

Primary irritant effect:
Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/irritation
Causes serious eye damage.
Respiratory or skin sensitisation 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.

11.1 Information on toxicological effects

Endocrine disrupting properties
This product does not contain substances with endocrine disrupting properties in a concentration of ≥ 0.1%.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	
CAS: 112-34-5 2-(2-butoxyethoxy)ethanol	
LC50 (96h) (static)	>1300 mg/L (fish) (OECD Guideline 203, Lepomis macrochirus) nominal
EC10 (0,5h) (static)	>1995 mg/L (Bacteria) (OECD Guideline 209, activated sludge) nominal
EC50 (96h) (static)	>100 mg/L (algae) (OECD Guideline 201, Desmodesmus subspicatus) nominal
EC50 (48h) (static)	>100 mg/L (Daphnia) (EU Method C.2, Daphnia magna) nominal
CAS: 142-31-4 sodium octyl sulphate	
LC50 (96h)	>100 mg/L (fish) (OECD Guideline 203, Danio rerio)
EC10	199 mg/L (algae) (EU Method C.3, Desmodesmus subspicatus) Read-across to CAS 142-31-4
EC50 (48h)	>100 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) nominal
EC50 (3h)	135 mg/L (Bacteria) (OECD Guideline 209, activated sludge) Read-across to CAS 142-31-4
EC50 (72h)	>511 mg/L (algae) (EU Method C.3, Desmodesmus subspicatus) Read-across to CAS 142-31-4
NOEC (21d)	1.4 mg/L (Daphnia) (OECD Guideline 211, Daphnia magna) Read-Across to CAS 142-31-4
NOEC (dynamic)	≥ 1.357 mg/L (fish) (Pimephales promelas) 42 d
CAS: 147170-44-3 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts	
LC50 (96h)	1.11 mg/L (fish) (OECD Guideline 203, Pimephales promelas) semi-static, freshwater
EC50 (48h) (static)	6.5 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) freshwater
NOEC	0.135 mg/L (fish) (OECD Guideline 210, Oncorhynchus mykiss) 37d, freshwater, flow-through
CAS: 740817-98-5 D-Glucopyranose, oligomeric , C8-C10 glucosides, phosphinicobis[oxy(2- hydroxy-3,1-propanediyl)] ethers, sodium salts	
LC50 (96h)	155 mg/L (fish) (QSAR, Pimephales promelas)
EC50 (48h) (static)	113.36 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) freshwater
EC50 (72h) (static)	185.64 mg/L (algae) (OECD Guideline 201, Pseudokirchneriella subcapitata)
CAS: 1469983-50-3 1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-(C12-18(even numbered) acyl) derivs. hydroxides, inner salts	

LC50 (96h) (static) EC50 (48h) (static) EC50 (72h) (static) NOEC (3h)	2.12 mg/L (fish) (OECD Guideline 203, Pimephales promelas) freshwater 4.6 mg/L (Daphnia) (EU Method C.2, Daphnia magna) freshwater 2.69 mg/L (algae) (ISO 10253) saltwater ≥ 1000 mg/L (Bacteria) (OECD Guideline 209, activated sludge)
CAS: 3926-62-3 sodium salt of chloroacetic acid	
LC50 (static)	57 mg/L (fish) (OECD Guideline 210, Danio rerio) 34d, freshwater
CAS: 2682-20-4 2-methyl-2H-isothiazol-3-one	
LC50 (48h) (dynamic) LC50 (96h) (dynamic) EC50 (96h) (static) EC50 (3h) (static) NOEC (21d) (dynamic) NOEC (30d) (dynamic)	0.934 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) 4.77 mg/L (fish) (OECD Guideline 203, Oncorhynchus mykiss) 0.069 mg/L (algae) (OECD Guideline 201, Skeletonema costatum) 41 mg/L (Bacteria) (OECD Guideline 209, activated sludge) nominal 0.044 mg/L (Daphnia) (OECD Guideline 211, Daphnia magna) 2.1 mg/L (fish) (OECD Guideline 210, Pimephales promelas)

12.2 Persistence and degradability

112-34-5	2-(2-butoxyethoxy)ethanol	85 % (28d, OECD Guideline 301 C)
142-31-4	sodium octyl sulphate	93 % (29 d, OECD Guideline 301 B)
147170-44-3	Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts	80-90% (60d, OECD Guideline 311)
740817-98-5	D-Glucopyranose, oligomeric , C8-C10 glucosides, phosphinicobis[oxy(2-hydroxy-3,1-propanediyl)] ethers, sodium salts	70% (9d, OECD Guideline 301D)
2682-20-4	methyl-2H-isothiazol-3-one	0% (28d, OECD Guideline 301 D)

12.3 Bio accumulative potential

147170-44-3	Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts	< 71 BCF
740817-98-5	D-Glucopyranose, oligomeric , C8-C10 glucosides, phosphinicobis[oxy(2-hydroxy-3,1-propanediyl)] ethers, sodium salts	5,36 ((Q)SAR)
2682-20-4	methyl-2H-isothiazol-3-one	48,1 BCF

12.4 Mobility in soil

142-31-4	sodium octyl sulphate	1,88 - < 2 log Koc (25 °C)

12.5 Results of PBT and vPvB assessment

This product does not contain any substances ≥ 0.1% *that have been assessed as PBT.*

12.6 Other adverse effects

This product does not contain substances with endocrine disrupting properties in a concentration of ≥ 0.1%.

SECTION 13: Disposal considerations

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1 Waste treatment methods

Do not discharge in the environment

Small amounts of product do not interfere with water treatment facilities. If released in sewage system, it is recommended to control the flow rate in order to avoid any foaming excess. Do not pour into waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Do not discharge in the environment. Rinse with plenty of water

SECTION 14: Transport information

In accordance with ADR, RID, IMDG, IATA, AND

Exempt from transport classification and labelling

14.1 UN Number or ID number	
ADR/RID/ADN, IMDG, IATA	Void
14.2 UN proper shipping name	
ADR/RID/ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR/RID/ADN, IMDG, IATA	Void
14.4 Packing group	
ADR/RID/ADN, IMDG, IATA	Void
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	Reference in Sections 4 to 8.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable
Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 55

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

16.1 Revision Information

2025-06-01	SDS-FFF-2506-EN	MS	First Compiled

16.2 Abbreviations and acronyms

CAS	Unique Numeric Identifier used in chemistry for chemical substances
CLP	Classification, Labelling and Packaging
CSN	Czech Technical Standard
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
Ems	Emergency plan
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous
IC50	Chemicals Concentration causing 50 % blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Transport
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the
LD50	population
MARPOL	Lethal dose of a substance in which it can be expected death of 50% of the population
MFAG	International Convention for the Prevention of Pollution From Ships
NPK	First Aid Manual
PBT	The maximum permissible concentration
PEL	Persistent ,Bio accumulative and Toxic
REACH	Permissible Exposure Limit
RID	Registration, Evaluation and Restriction of chemicals (EP and Council Regulation (EC)
SVHC	No.1907/2006)
vPvB	Regulations concerning the International carriage of Dangerous goods by rail.
WGK	Substances of very high concern.
	Very Persistent and very Bio accumulative
	Wassergefahrdungsklasse (Water Hazard Class)

16.3 Key literature references and sources for data

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended, REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended,

COMMISSION REGULATION (EU) No 453/2010, COUNCIL DIRECTIVE 67/548/EEC as amended and 1999/45/EC, COMMISSION REGULATION (EU) No 286/2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

16.4 Relevant R-phrases/H-statements

In pressurized cylinders only

H280 Contains gas under pressure; may explode if heated.

16.5 Training advice

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the mixture.

16.6 Declare to reader

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage. According to REACH Article 31(5), the SDS shall be supplied in an official language of the Member State(s) where the substance or mixture is placed on the market, unless the recipient Member State(s) concerned provide otherwise. It should also be noted that this SDS is applicable to the countries with English as an official language.

---------- End of the SDS ----------