

SAFETY DATA SHEET

Prepare & Finish

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	06.07.2021
Revision date	23.10.2024

1.1. Product identifier

Product name	Prepare & Finish
Article no.	T120050

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

Product group	Cleaning agent.
Professional use	Yes
Consumer use	Yes

1.3. Details of the supplier of the safety data sheet

Company name	Relekta AS
Office address	Innspurten 1A
Postal address	Postboks 6169 Etterstad
Postcode	0663
City	Oslo
Country	Norway
Telephone number	+47 22 66 04 00
Fax	+47 22 66 04 01
Email	post@relekta.no
Website	www.relekta.no
Enterprise No.	NO 831 881 372

1.4. Emergency telephone number

Emergency telephone	Telephone number: +47 22 59 13 00 Description: Norwegian Poison Information Center
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Telephone number: 112
Description: Within Sweden: Ask for Poison Information

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Aerosol 3; H229
Substance / mixture hazardous properties	Pressurized container: May explode when heated.

2.2. Label elements

Signal word	Warning
Hazard statements	H229 Pressurised container: May burst if heated.
Precautionary statements	P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251 Do not pierce or burn, even after use. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.
Detergents	Content according to Regulation (EC) No 648/2004 on detergents: < 5 % non-ionic surfactants.

2.3. Other hazards

PBT / vPvB	The chemical contains no PBT or vPvB substances.
Health effect	This chemical contains a substance which may penetrate the skin.
Other hazards	The chemical does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
2-Butoxyethanol	CAS No.: 111-76-2	Acute Tox. 4; H302	≤ 7 %	
	EC No.: 203-905-0	Acute Tox. 3; H331		
	Index No.: 603-014-00-0	Skin Irrit. 2; H315		
	REACH Reg. No.: 01-2119475108-36	Eye Irrit. 2; H319		
Propan-2-ol	CAS No.: 67-63-0	Flam. Liq. 2; H225	≤ 4 %	
	EC No.: 200-661-7	Eye Irrit. 2; H319		
	Index No.: 603-117-00-0	STOT SE 3; H336		
	REACH Reg. No.: 01-2119457558-25			
Propellant: Nitrogen	CAS No.: 7727-37-9 EC No.: 231-783-9	Press. Gas (Comp.) ; H280	≤ 2 %	

Remarks, substance	CAS No: 111-76-2 ATE (oral): 1200 mg/kg ATE (inhalation (vapour)): 3 mg/l
Substance comments	For substances without REACH registration number, no information has been provided by the subcontractor or manufacturer. See section 16 for explanation of hazard statements (H) listed above.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Flush skin thoroughly with water. Get medical attention if any discomfort continues.
Eye contact	Remove contact lenses and open eyes wide apart. Promptly rinse eyes with plenty of water (tempered at 20-30°C) for at least 15 minutes. Get medical attention if any discomfort continues.
Ingestion	Rinse your mouth thoroughly with water. Drink a few glasses of water or milk. Do NOT induce vomiting. Get medical attention if any discomfort continues.

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

Acute symptoms and effects	None known.
Delayed symptoms and effects	Contains components which may penetrate the skin.

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

Other information	Treat symptomatically. No specific information from the manufacturer.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry-powder, carbon dioxide (CO ₂), water mist, alcohol resistant foam.
Improper extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The chemical is not classified as flammable.
Hazardous combustion products	May include, but is not limited to: Carbon dioxide (CO ₂). Carbon monoxide (CO).

5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.
Other information	Containers close to fire should be removed immediately or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Keep away from heat / sparks / open flames / hot surfaces. — No smoking.
Personal protection measures	Provide adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Use protective equipment as referred to in section 8.

6.2. Environmental precautions

Environmental precautionary measures	Do not allow to enter into sewer, water system or soil.
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6.3. Methods and material for containment and cleaning up

Clean up	Aerosol cans are collected mechanically. Content of the spray can: Absorb in vermiculite, dry sand or earth and place into containers. Do not use sawdust or other combustible material. Collect in a suitable container and dispose as hazardous waste according to section 13.
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6.4. Reference to other sections

Other instructions	See also sections 8 and 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Provide adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Use protective equipment as referred to in section 8.
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Protective safety measures

Safety measures to prevent fire	Keep away from heat / sparks / open flames / hot surfaces. — No smoking.
Advice on general occupational hygiene	Do not eat, drink or smoke during work. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a dry, cool and well-ventilated place.
Conditions to avoid	Protect from sunlight. Frost.

Conditions for safe storage

Advice on storage compatability	Keep away from: Oxidizing agents. Reducing agents. Strong acids. Strong alkalis. Food and feed.
Storage temperature	Value: < 50 °C

7.3. Specific end use(s)

Specific use(s)

See section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
2-Butoxyethanol	CAS No.: 111-76-2	Country of origin: Norwegian ADN Limit value (8 h) : 10 ppm Limit value (8 h) : 50 mg/m ³ Exposure limit letter Letter code: H, E Country of origin: Swedish ADN Limit value (8 h) : 10 ppm Limit value (8 h) : 50 mg/m ³ Limit value (short term) Value: 50 ppm Limit value (short term) Value: 246 mg/m ³ Exposure limit letter Letter code: H	
Propan-2-ol	CAS No.: 67-63-0	Country of origin: Norwegian ADN Limit value (8 h) : 100 ppm Limit value (8 h) : 245 mg/m ³ Country of origin: Swedish ADN Limit value (8 h) : 150 ppm Limit value (8 h) : 350 mg/m ³ Limit value (short term) Value: 250 ppm Limit value (short term) Value: 600 mg/m ³ Exposure limit letter Letter code: V	
Control parameters comments	Explanation of the notations: E = The EU has an indicative limit value and/or remark for the substance. H = Chemicals that can be absorbed through the skin. V = Indicative short-term limit value References (laws/regulations): Norwegian regulation on exposure limits: FOR 2011-12-06 nr. 1358 Forskrift om tiltaks- og grenseverdier (sist endret gjennom FOR-2024-05-15-785). Swedish regulation on exposure limits: Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden, "Hygieniska gränsvärden", AFS 2018:1		

DNEL / PNEC

DNEL

Group: Professional
 Route of exposure: Long-term inhalation (systemic)

Value: 500 mg/m³

Comments: Applies to CAS-nr.: 67-63-0.

Group: Professional

Route of exposure: Long-term dermal (systemic)

Value: 888 mg/kg bw/day

Comments: Applies to CAS-nr.: 67-63-0.

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 89 mg/m³

Comments: Applies to CAS-nr.: 67-63-0.

Group: Consumer

Route of exposure: Long-term dermal (systemic)

Value: 319 mg/kg bw/day

Comments: Applies to CAS-nr.: 67-63-0.

Group: Consumer

Route of exposure: Long-term oral (systemic)

Value: 26 mg/kg bw/day

Comments: Applies to CAS-nr.: 67-63-0.

Group: Professional

Route of exposure: Long-term inhalation (systemic)

Value: 98 mg/m³

Comments: Applies to CAS-nr.: 111-76-2.

Group: Professional

Route of exposure: Acute inhalation (systemic)

Value: 1091 mg/m³

Comments: Applies to CAS-nr.: 111-76-2.

Group: Professional

Route of exposure: Acute inhalation (local)

Value: 246 mg/m³

Comments: Applies to CAS-nr.: 111-76-2.

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 59 mg/m³

Comments: Applies to CAS-nr.: 111-76-2.

Group: Consumer

Route of exposure: Acute inhalation (systemic)

Value: 426 mg/m³

Comments: Applies to CAS-nr.: 111-76-2.

Group: Consumer

Route of exposure: Acute inhalation (local)

Value: 147 mg/m³

Comments: Applies to CAS-nr.: 111-76-2.

Group: Consumer

Route of exposure: Long-term oral (systemic)

Value: 6,3 mg/kg bw/day

PNEC

Comments: Applies to CAS-nr: 111-76-2.

Group: Consumer

Route of exposure: Acute oral (systemic)

Value: 26,7 mg/kg bw/day

Comments: Applies to CAS-nr: 111-76-2.

Route of exposure: Freshwater

Value: 8,8 mg/l

Comments: Applies to CAS-nr: 111-76-2.

Route of exposure: Saltwater

Value: 0,88 mg/l

Comments: Applies to CAS-nr: 111-76-2.

Route of exposure: Freshwater

Value: 26,4 mg/l

Comments: Intermittent release. Applies to CAS-nr: 111-76-2.

Route of exposure: Sewage treatment plant STP

Value: 463 mg/l

Comments: Applies to CAS-nr: 111-76-2.

Route of exposure: Freshwater sediments

Value: 34,6 mg/kg dw

Comments: Applies to CAS-nr: 111-76-2.

Route of exposure: Saltwater sediments

Value: 3,46 mg/kg dw

Comments: Applies to CAS-nr: 111-76-2.

Route of exposure: Soil

Value: 2,33 mg/kg dw

Comments: Applies to CAS-nr: 111-76-2.

Route of exposure: Food products

Value: 20 mg/kg

Comments: Applies to CAS-nr: 111-76-2.

8.2. Exposure controls

Precautionary measures to prevent exposure

Technical measures to prevent exposure

Provide adequate ventilation. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment.

A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipment's suitability and durability will depend on application.

Eye / face protection

Eye protection equipment

Description: Risk of splashes: Wear tight-fitting goggles or face shield.

Reference to relevant standard: EN ISO 16321-1:2022 (Eye and face protection)

Additional eye protection measures	for occupational use - Part 1: General requirements). Eye wash facilities should be available at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable disposable unit.
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Hand protection

Suitable gloves type	Nitrile.
Breakthrough time	Value: > 480 minute(s)
Thickness of glove material	Value: 0,35 mm
Hand protection equipment	Description: Use protective gloves that are suitable for the application. The gloves abilities may vary among the different glove manufacturers. Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN ISO 21420:2020 (Protective gloves - General requirements and test methods).
Additional hand protection measures	Replace gloves if signs of wear and tear. Gloves must only be worn on clean, dry hands.

Skin protection

Recommended protective clothing	Description: Wear appropriate protective clothing to protect against skin contact. Reference to relevant standard: EN 14605 (Protective clothing against liquid chemicals. performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])).
Additional skin protection measures	Emergency shower should be available at the workplace.

Respiratory protection

Recommended respiratory protection	Description: Normally not required. In case of insufficient ventilation or if there is a risk of inhalation of aerosols, wear respiratory protection with combination filter (Type A/P2). Reference to relevant standard: EN 14387 (Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking). EN 143 (Respiratory protective devices - Particle filters - Requirements, testing, marking).
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Appropriate environmental exposure control

Environmental exposure controls	Do not allow to enter into sewer, water system or soil.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Press Pack / Fluid
Colour	Not specified by the manufacturer.
Odour	Characteristic.
pH	Value: 7

Melting point / melting range	Value: < 0 °C
Boiling point / boiling range	Value: 82 - 173 °C
Flash point	Value: > 58 °C
Flammability	The product is not classified as flammable.
Explosion limit	Value: 1,13 - 12 vol%
Vapour pressure	Comments: Not specified by the manufacturer.
Vapour density	Comments: Not specified by the manufacturer.
Particle characteristics	Comments: Not relevant for liquids.
Relative density	Value: 1,00 Temperature: 20 °C
Density	Value: 995 kg/m ³ Temperature: 20 °C
Solubility	Medium: Water Comments: Completely soluble in water.
Partition coefficient: n-octanol/ water	Comments: Not relevant for a mixture.
Auto-ignition temperature	Value: 230 °C
Decomposition temperature	Comments: Not specified by the manufacturer.
Viscosity	Value: 1 mPa.s Temperature: 20 °C Type: Dynamic Comments: Not specified by the manufacturer. Type: Kinematic

9.2. Other information

Physical hazards

Content of VOC	Value: 9,8 %
	Value: 98 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	When heated, the risk of fire increases.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal conditions.
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10.4. Conditions to avoid

Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid

Oxidizing agents. Reducing agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products

None under normal conditions. See also section 5.2.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Other toxicological data

2-Butoxyethanol – CAS No: 111-76-2
 Oral, LD50, Equivalent to OECD 401, 1746 mg/kg body weight, Rat (male), Experimental value
 Oral, LD50, OECD 401, 1414 mg/kg body weight, guinea pig (male / female), experimental value
 Skin, LC0, OECD 402, > 2000 mg/kg body weight, 24 hours, guinea pig (male / female), experimental value
 Inhalation (vapour), ATE, 3 mg/l, Annex VI
 Inhalation (saturated vapor), Dose level, Equivalent to OECD 433, 2.25 mg/l, 4 h, Guinea pig (male / female), Experimental value, No effect

Propan-2-ol – CAS No: 67-63-0
 Oral, LD50, Equivalent to OECD 401, 5840 mg/kg body weight, rat, experimental value
 Skin, LD50, Equivalent to OECD 402, 16400 ml/kg body weight, 24 hours, rabbit, experimental value
 Inhalation (vapour), LC50, Equivalent to OECD 403, > 10000 ppm, 6 hours, Rat (male / female), Experimental value

Other information regarding health hazards

Assessment of acute toxicity, classification

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

Assessment of skin corrosion / irritation, classification

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

Assessment of eye damage or irritation, classification

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

Assessment of respiratory sensitisation, classification

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

Assessment of skin sensitisation, classification

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

General

Corrosive/Irritating
 2-Butoxyethanol – CAS No: 111-76-2
 Eye, Irritant, OECD 405, 24 hours, 24; 48; 72 hours, Rabbit, Experimental value, Single treatment with rinsing
 Skin, Irritant, EU method B.4, 4 hours, 24; 48; 72 hours, rabbit, experimental value

Propan-2-ol – CAS No: 67-63-0

Eye, Irritant, Equivalent to OECD 405, 1; 2; 3; 4; 7; 10; 14 days, Rabbit, Experimental value, Single treatment without rinsing

Skin, Non-irritating, 4 t, 4; 24; 48; 72 hours, rabbit, experimental value

Sensitizing for skin and respiratory tract

2-Butoxyethanol – CAS No: 111-76-2

Skin, Non-sensitizing, OECD 406, Guinea pig (male / female), Experimental value

Propan-2-ol – CAS No: 67-63-0

Skin, Non-sensitizing, OECD 406, Guinea pig (male / female), Experimental value

Specific organ toxicity

2-Butoxyethanol – CAS No: 111-76-2

Oral (drinking water), NOAEL, Equivalent to OECD 408, < 69 mg/kg body weight/day, No effect, 90 days (continuous), Rat (male), Experimental value

Oral (drinking water), NOAEL, Equivalent to OECD 408, < 82 mg/kg body weight/day, No effect, 90 days, Rat (female), Experimental value

Skin, NOAEL, Equivalent to OECD 411, > 150 mg/kg body weight/day, No effect, 13 weeks (5 days/week), Rabbit (male/female), Experimental value

Inhalation (vapour), NOAEC, Equivalent to OECD 413, < 31 ppm, No effect, 14 weeks (6h/day, 5 days/week), Rat (female), Experimental value

Inhalation (vapour), NOAEC, Equivalent to OECD 413, 62.5 ppm, No effect, 14 weeks (6h/day, 5 days/week), Rat (male), Experimental value

Propan-2-ol – CAS No: 67-63-0

Verbal, data opt-out

Dermal, data dropout

Inhalation (vapour), NOAEC, OECD 451, 5000 ppm, No adverse systemic effects, 104 weeks (6h/day, 5 days/week), Rat (male/female), Experimental value

Inhalation (vapour), Dose level, Equivalent to OECD 403, 5000 ppm, Central nervous system, Drowsiness, dizziness, 6 hours, Rat (male / female), Experimental value

Mutagenic properties (in vitro)

2-Butoxyethanol – CAS No: 111-76-2

Negative with metabolic activation, negative without metabolic activation, Equivalent to OECD 471, Bacteria (S.typhimurium), Experimental value

Negative with metabolic activation, negative without metabolic activation, Equivalent to OECD 476, Chinese hamster ovary (CHO), experimental value

Propan-2-ol – CAS No: 67-63-0

Negative with metabolic activation, negative without metabolic activation, Equivalent to OECD 471, Bacteria (S.typhimurium), No effect, Experimental value

Negative with metabolic activation, negative without metabolic activation, Equivalent to OECD 476, Chinese hamster ovary (CHO), No effect, Experimental value

Mutagenic properties (in vivo)

2-Butoxyethanol – CAS No: 111-76-2

Negative (intraperitoneal), Equivalent to OECD 474, 3 doses / 24-hour interval, mouse (male), experimental value

	Propan-2-ol – CAS No: 67-63-0 Negative (intraperitoneal), Equivalent to OECD 474, Mouse (male / female), Experimental value Carcinogen 2-Butoxyethanol – CAS No: 111-76-2 Inhalation (vapour), NOAEC, Equivalent to OECD 451, > 125 ppm, 104 weeks (6h/day, 5 days/week), Rat (male/female), No carcinogenic effect, Experimental value Propan-2-ol – CAS No: 67-63-0 Exposure route, Parameter, Method, Value, Exposure time, Species, Effect, Organ, Value determination Inhalation (vapour), NOEL, OECD 451, 5000 ppm, 104 weeks (6h/day, 5 days/week), Rat (male/female), No carcinogenic effect, Experimental Value Reproductive toxicity 2-Butoxyethanol – CAS No: 111-76-2 Developmental toxicity (Oral (gastric tube)), NOAEC, Equivalent to OECD 414, 200 mg/kg bw/day, 3 days (gestation, daily), Rat, No effect, Experimental value Maternal toxicity (Oral (gastric tube)), NOAEL, Equivalent to OECD 414, 30 mg/kg bw/day, 3 days (pregnancy, daily), Rat, No effect, Experimental value Effects on fertility (Oral (drinking water)), NOAEL, Fertility assessment, 720 mg/kg body weight/day, Mouse (male/female), No effect, Experimental value Propan-2-ol – CAS No: 67-63-0 Parameter, Method, Value, Exposure time, Species, Effect, Organ, Value determination Developmental toxicity (Oral (gastric tube)), NOAEL, Equivalent to OECD 414, 400 mg/kg body weight/day, 10 days, Rat, No effect, Fetus, Experimental value Maternal toxicity (Oral (gastric tube)), NOAEL, Equivalent to OECD 414, 400 mg/kg body weight/day, 10 days, Rat, No effect, Experimental value Effects on fertility (Oral (drinking water)), NOAEL, Equivalent to OECD 415, 853 mg/kg body weight/day, Rat (male / female), No effect, Experimental value
Assessment of germ cell mutagenicity, classification	Based on available data, the classification criteria are not met.
Assessment of carcinogenicity, classification	Based on available data, the classification criteria are not met.
Assessment of reproductive toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - single exposure, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - repeated exposure, classification	Based on available data the classification criteria are not met.
Assessment of aspiration hazard, classification	Based on available data, the classification criteria are not met.

Symptoms of exposure

In case of ingestion	No specific information from the manufacturer.
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In case of skin contact	This chemical contains a substance which may penetrate the skin.
In case of inhalation	No specific information from the manufacturer.
In case of eye contact	No specific information from the manufacturer.

11.2 Other information

Endocrine disruption	The chemical does not contain any known or suspected endocrine disruptors.
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SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	The chemical is not classified as harmful to the environment. 2-Butoxyethanol – CAS No: 111-76-2 Acute toxicity fish, LC50, OECD 203, 1474 mg/l, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value; Nominal concentration Acute toxicity to crustaceans, EC50, OECD 202, 1550 mg/l, 48 h, Daphnia magna, Static system, Fresh water, Experimental value; Motion effect Toxicity to algae and other aquatic plants, ErC50, OECD 201, 1840 mg/l, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value; Nominal concentration NOEC, OECD 201, 286 mg/l, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value; Growth rate Long-term toxicity fish, NOEC, Equivalent to OECD 204, > 100 mg/l, 21 day(s), Danio rerio, Semi-static system, Fresh water, Experimental value; Nominal concentration Long-term toxicity aquatic crustacean, NOEC, OECD 211, 100 mg/l, 21 day(s), Daphnia magna, Semi-static system, Fresh water, Experimental value; Reproduction Toxicity aquatic microorganisms, Toxicity threshold, Equivalent to DIN 38412/8, 700 mg/l, 16 h, Pseudomonas putida, Static system, Fresh water, Experimental value; Nominal concentration Propan-2-ol – CAS No: 67-63-0 Acute toxicity fish, LC50, Equivalent to OECD 203, 9640 mg/l - 10000 mg/l, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value; Deadly Acute toxicity crustaceans, LC50, Equivalent to OECD 202, > 10000 mg/l, 24 hours, Daphnia magna, Static system, Fresh water, Experimental value; Motion effect Toxicity algae and other aquatic plants, Toxicity threshold, 1800 mg/l, 7 day(s), Scenedesmus quadricauda, Static system, Fresh water, Experimental value; Toxicity test Long-term toxicity fish, NOELR, Petrotox computer model, > 1000 mg/l, 28 day(s), Brachydanio rerio, estimated value Long-term toxicity aquatic crustacean, NOEC, 141 mg/l, 16 day(s), Daphnia magna, Fresh water, Experimental value; Growth Toxicity aquatic microorganisms, Toxicity threshold, Equivalent to DIN 38412/8, 1050 mg/l, 16 h, Pseudomonas putida, Static system, Fresh water, Experimental value; Toxicity test EC50, ISO 8192, 41676 mg/l, 30 minutes, Activated sludge, Experimental value
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12.2. Persistence and degradability

Persistence and degradability description/evaluation	The surfactant/surfactants contained in this preparation meet the criteria for biodegradation of Regulation (EC) no. 648/2004 on detergents. 2-Butoxyethanol – CAS No: 111-76-2 Biological degradation in water, OECD 301B, 90%; Carbon dioxide, 28 day(s), Experimental value Phototransformation air (DT50 air), AOPWIN v1.90, 5.5 t, 1.5E6 /cm³, QSAR Propan-2-ol – CAS No: 67-63-0 Biodegradation in water, EU method C.5, 53%; Oxygen consumption, 5 day(s), Experimental value Phototransformation air (DT50 air), AOPWIN v1.92, 17,668 h, 1.5E6 /cm³, calculated value
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12.3. Bioaccumulative potential

Bioaccumulation, evaluation	The chemical does not contain any substances that are considered bioaccumulative.
Bioaccumulation, comments	2-Butoxyethanol – CAS No: 111-76-2 Log Kow, BASF test, 0.81, 25 °C, experimental value Propan-2-ol – CAS No: 67-63-0 BCF fisher, BCFBAF v3.01, 1015, Estimated value Log Kow, 0.05, 25 °C, Weight of evidence approach

12.4. Mobility in soil

Mobility	Miscible with water. Contains component(s) with the potential for mobility in soil.
Mobility, comments	2-Butoxyethanol – CAS No: 111-76-2 log Koc, SRC PCKOCWIN v2.0, 0.5 - 0.9, calculated value Percentage distribution, Method, Fraction air, Fraction biota, Fraction sediment, Fraction soil, Fraction water, Value determination Mackay Level I, 0.31%, 0%, 0.01%, 0.59%, 99.09%, QSAR Propan-2-ol – CAS No: 67-63-0 log Koc, SRC PCKOCWIN v2.0, 0.185 - 0.541, calculated value

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	The chemical contains no PBT or vPvB substances.
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12.6. Endocrine disrupting properties

Endocrine disrupting properties	The chemical does not contain any known or suspected endocrine disruptors.
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12.7. Other adverse effects

Ozone depletion potential	Comments: The chemical contains no substances classified as hazardous to the ozone layer.
Additional ecological information	Danger of drinking water pollution (ground water). Applies to CAS-no: 111-76-2 &

67-63-0. Do not allow to enter into sewer, water system or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Dispose of on site landfill area. The waste code (EWC-Code) is intended as a guide. The user must select a code if the use differs from the one mentioned below.
EWC waste code	EWC waste code: 120199 wastes not otherwise specified Classified as hazardous waste: No
NORSAS	7055 Aerosol cans.
Other information	Do not empty into drains.

SECTION 14: Transport information

Dangerous goods	Yes
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14.1. UN number

ADR/RID/ADN	1950
IMDG	1950
ICAO/IATA	1950

14.2. UN proper shipping name

Proper shipping name English ADR/RID/ADN	AEROSOLS
ADR/RID/ADN	AEROSOLS
IMDG	AEROSOLS
ICAO/IATA	AEROSOLS, NON-FLAMMABLE

14.3. Transport hazard class(es)

ADR/RID/ADN	2.2
Classification code ADR/RID/ADN	5A

14.4. Packing group

Comments	Not relevant.
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14.5. Environmental hazards

IMDG Marine pollutant	No
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14.6. Special precautions for user

Special safety precautions for user	Combination packaging: no more than 1 liter per inner packaging for liquids. A package must not weigh more than 30 kg (gross mass).
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14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no)	No
Product name	AEROSOLS, NON-FLAMMABLE

Additional information

Hazard label ADR/RID/ADN	2.2
Hazard label IMDG	2.2
Hazard label ICAO/IATA	2.2

ADR/RID Other information

Tunnel restriction code	E
Transport category	3

IMDG Other information

EmS	F-D, S-U
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SECTION 15: Regulatory information

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

VOC	VOC percent by weight: 9,8 VOC value: 98 g/l
References (laws/regulations)	Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments. Norwegian regulation on dangerous goods: FOR 2009-04-01 nr 384: Forskrift om landtransport av farlig gods med senere endringer, Direktoratet for samfunnssikkerhet og beredskap. Swedish regulation on dangerous goods: Lag (2006:263) om transport av farligt gods, med senare ändringar. Norwegian regulation on waste, 01.06.2004 no. 930, with later amendments. Swedish regulation on waste: SFS 2011:927. Avfallsförordning, med ändringar. Norwegian regulation FOR-1996-03-01 no. 229 with later amendments: Forskrift om aerosolbeholdere.

15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
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List of relevant H-phrases (Section 2 and 3)	H225 Highly flammable liquid and vapour. H229 Pressurised container: May burst if heated. H280 Contains gas under pressure; may explode if heated. H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H336 May cause drowsiness or dizziness.
CLP classification, comments	Calculation method.
Key literature references and sources for data	Suppliers Safety data sheet dated: 29.07.2023.
Abbreviations and acronyms used	ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways DNEL: Derived No Effect Level EWC: European Waste Code (a code from the EU's common classification system for waste) EC50: The effective concentration of substance that causes 50% of the maximum response ErC50: ErC50 means EC50 in terms of reduction of growth rate, (ErC50 = EC50(growth rate)) IATA: The International Air Transport Association ICAO: The International Civil Aviation Organisation IMDG: The International Maritime Dangerous Goods Code IMO: International Maritime Organization LC50: Median concentration lethal to 50% of a test population. LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%. NOEC: No observed effect concentration OECD: Organisation for Economic Cooperation and Development. PBT: Persistent, Bioaccumulative and Toxic PNEC: Predicted No Effect Concentration RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail vPvB: very Persistent and very Bioaccumulative
Information added, deleted or revised	Sections being revised since previous version: 1-16
Checking quality of information	This SDS is quality controlled by Kiwa Kompetanse AS in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2015.
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