

SAFETY DATA SHEET

MULTICLEAN

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	21.10.2003
Revision date	12.08.2024

1.1. Product identifier

Product name	MULTICLEAN
Article no.	T483071

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

Use of the substance / mixture	Detergent. Degreasing agent
Professional use	Yes
Consumer use	Yes

1.3. Details of the supplier of the safety data sheet**Distributor**

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
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Description: Norwegian Poison Information Center
 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 1; H222
Substance / mixture hazardous properties	Aerosol 1; H229 Extremely flammable aerosol. Pressurized container: May explode when heated.

2.2. Label elements

Hazard pictograms (CLP)



Signal word	Danger
Hazard statements	H222 Extremely flammable aerosol. 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 sources of ignition. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.
Supplemental label information	Content according to Regulation (EC) No 648/2004 on detergents: 5 - 15 % aliphatic hydrocarbons. < 5 % perfume.

2.3. Other hazards

PBT / vPvB	The chemical contains no PBT or vPvB substances.
Hazard description, general	Aerosol cans may explode in a fire.
Physicochemical effects	Vapours may be ignited by a spark, a hot surface or an ember. Vapours are heavier than air and may travel along the floor and in the bottom of containers.
Health effect	Parts of the chemical might be absorbed through 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
Propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH Reg. No.: 01-2119457558-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	≥ 2,5 < 10 %	
1-Methoxypropan-2-ol	CAS No.: 107-98-2 EC No.: 203-539-1 Index No.: 603-064-00-3 REACH Reg. No.: 01-2119457435-35	Flam. Liq. 3; H226 STOT SE 3; H336	≥ 1 < 2,5 %	
Propellant mixture of:				
Butane	CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH Reg. No.: 01-2119474691-32	Flam. Gas 1A; H220 Press. Gas (Liq.) ; H280	≥ 2,5 < 10 %	
Propane	CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 REACH Reg. No.: 01-2119486944-21	Flam. Gas 1A; H220 Press. Gas (Liq.) ; H280	≥ 2,5 < 10 %	
Isobutane	CAS No.: 75-28-5 EC No.: 200-857-2 Index No.: 601-004-00-0 REACH Reg. No.: 01-2119485395-27	Flam. Gas 1A; H220 Press. Gas (Liq.) ; H280	≥ 0,1 < 1 %	
Remarks, substance	CAS-nr.:106-97-8 & 75-28-5 contains < 0,1% 1,3-butadiene. This indicates that the ingredient is neither carcinogenic nor mutagenic.			
Substance comments	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. Immediately flush with plenty of water or eyewash solution for up to 10 minutes. Get medical attention if any discomfort continues.
Ingestion	Unlikely because of the chemical condition. If the chemical is swallowed in liquid form: Rinse your mouth thoroughly with water. 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.
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4.3. Indication of any immediate medical attention and special treatment needed

Other information

Treat symptomatically. No specific information from the manufacturer.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry-powder, carbon dioxide (CO₂) or water mist.

Improper extinguishing media

Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards

Extremely flammable aerosol.
Pressurized container: May explode when heated.
Vapours are heavier than air and may spread near ground to sources of ignition.
Can form explosive gas-air mixtures. Vapours may be ignited by a spark, a hot surface or an ember.

Hazardous combustion products

May include, but is not limited to: Carbon monoxide (CO). Carbon dioxide (CO₂).

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

If there is no risk involved, move the containers to a safe place. If not possible, cool with water from a safe position.

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 aerosols 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.

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.
Wash the contaminated surface with detergent and water.

Other information

Vapours may form explosive mixtures with air on the ground.

6.4. Reference to other sections

Other instructions

See also sections 8 and 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Handling

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

Protective safety measures

Safety measures to prevent fire

Do not use near naked flames or glowing materials. Keep away from sources of ignition - No smoking.
 Take precautionary measures against static discharges.
 Use explosion-proof electrical/ventilating/lighting/.../equipment.
 Pressurized container: Do not pierce or burn, even after use.
 Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Use only non-sparking tools.

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

Avoid heat, flames and other sources of ignition. Protect from sunlight. Frost.

Conditions for safe storage

Advice on storage compatibility

Keep away from: 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
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
1-Methoxypropan-2-ol	CAS No.: 107-98-2	Country of origin: Norwegian ADN Limit value (8 h) : 50 ppm Limit value (8 h) : 180 mg/ m ³ Exposure limit letter Letter code: H, E
Butane	CAS No.: 106-97-8	Country of origin: NORWEGIAN Limit value (8 h) : 250 ppm Limit value (8 h) : 600 mg/ m ³
Propane	CAS No.: 74-98-6	Country of origin: NORWEGIAN Limit value (8 h) : 500 ppm Limit value (8 h) : 900 mg/ m ³
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): Swedish regulation on exposure limits: Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden, "Hygieniska gränsvärden", AFS 2018:1 Norwegian regulation on exposure limits: FOR 2011-12-06 nr. 1358 Forskrift om tiltaks- og grenseverdier (sist endret gjennom FOR-2024-05-15-785).	

DNEL / PNEC

DNEL	Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 500 mg/m ³ 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/m ³ 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

PNEC

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: 369 mg/m³

Comments: Applies to CAS-nr: 107-98-2.

Group: Professional

Value: 553,5 mg/m³

Comments: Acute, inhalation (systemic, local)

Applies to CAS-nr: 107-98-2.

Group: Professional

Route of exposure: Long-term dermal (systemic)

Value: 183 mg/m³

Comments: Applies to CAS-nr: 107-98-2.

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 43,9 mg/m³

Comments: Applies to CAS-nr: 107-98-2.

Group: Consumer

Route of exposure: Long-term dermal (systemic)

Value: 78 mg/kg bw/day

Comments: Applies to CAS-nr: 107-98-2.

Group: Consumer

Route of exposure: Long-term oral (systemic)

Value: 33 mg/kg bw/day

Comments: Applies to CAS-nr: 107-98-2.

Route of exposure: Freshwater

Value: 10 mg/l

Comments: Applies to CAS-nr: 107-98-2.

Route of exposure: Saltwater

Value: 1 mg/l

Comments: Applies to CAS-nr: 107-98-2.

Route of exposure: Freshwater

Value: 100 mg/l

Comments: Intermittent release.

Applies to CAS-nr: 107-98-2.

Route of exposure: Sewage treatment plant STP

Value: 100 mg/l

Comments: Applies to CAS-nr: 107-98-2.

Route of exposure: Freshwater sediments

Value: 52,3 mg/kg dw

Comments: Applies to CAS-nr: 107-98-2.

Route of exposure: Saltwater sediments

Value: 5,2 mg/kg dw
Comments: Applies to CAS-nr: 107-98-2.

Route of exposure: Soil
Value: 4,59 mg/kg dw
Comments: Applies to CAS-nr: 107-98-2.

8.2. Exposure controls

Precautionary measures to prevent exposure

Technical measures to prevent exposure	<p>Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. 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.</p> <p>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.</p>
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Eye / face protection

Eye protection equipment	<p>Description: At risk of eye contact: Wear tight-fitting goggles or face shield.</p> <p>Reference to relevant standard: EN ISO 16321-1:2022 (Eye and face protection for occupational use - Part 1: General requirements).</p>
Additional eye protection measures	<p>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.</p>

Hand protection

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

Skin protection

Recommended protective clothing	<p>Description: Wear appropriate protective clothing to protect against skin contact.</p> <p>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])).</p>
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Additional skin protection measures	Emergency shower should be available at the workplace.
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Respiratory protection

Recommended respiratory protection	Description: 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	Aerosol.
Colour	Colourless.
Odour	Odour of alcohol.
pH	Comments: Not specified by the manufacturer.
Melting point / melting range	Comments: Not specified by the manufacturer.
Boiling point / boiling range	Comments: Not specified by the manufacturer.
Flash point	Comments: Not relevant for Aerosol.
Flammability	Extremely flammable aerosol.
Explosion limit	Value: 1,5 - 13,7 vol%
Vapour pressure	Comments: Not specified by the manufacturer.
Vapour density	Value: > 1 Comments: Air=1.
Particle characteristics	Comments: Not relevant for Aerosol.
Relative density	Value: 0,94 Comments: Liquid Temperature: 20 °C
Density	Value: 0,946 kg/m ³ Comments: Liquid Temperature: 20 °C
Solubility	Medium: Water Comments: Soluble.
Partition coefficient: n-octanol/water	Comments: Not relevant for a mixture.
Auto-ignition temperature	Comments: Not relevant for Aerosol.
Decomposition temperature	Comments: Not specified by the manufacturer.
Viscosity	Comments: Not relevant for Aerosol.

	Type: Kinematic
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9.2. Other information

Physical hazards

Content of VOC	Value: 16 %
	Value: 151,6 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	May be ignited by heat, sparks or flames.
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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	May occur if the chemical is exposed to conditions to be avoided (see section 10.4).
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Protect from sunlight. Avoid freezing.
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10.5. Incompatible materials

Materials to avoid	Not specified by the manufacturer.
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10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.
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SECTION 11: Toxicological information

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

Other toxicological data	<p>1-methoxy-2-propanol (CAS 107-98-2); Oral, LD50, EU Method B.1 tris, 4016 mg/kg body weight, Rat (male/female), Experimental value. Dermal, LD50, Equivalent to EU Method B.3, > 2000 mg/kg body weight, 24 h, Rat (male/female), Experimental value. Inhalation (vapour), LC0, Equivalent to OECD 403, > 7000 ppm, 6 h, Rat (male/female), Experimental value.</p> <p>propan-2-ol (CAS 67-63-0); Oral, LD50, Equivalent to OECD 401, 5840 mg/kg body weight, Rat, Experimental value.</p>
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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 h, 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	<p>Corrosive/Irritating</p> <p>1-methoxy-2-propanol (CAS 107-98-2); Eye, Non-irritating, Equivalent to EU method B.5, 24; 48; 72 hours, Rabbit, Experimental value, Single treatment without rinsing. Skin, Non-Irritating, Equivalent to EU method B.4, 4 hours, 24; 48; 72 hours, rabbit, experimental value,</p> <p>propan-2-ol (CAS 67-63-0); Eye, Irritant, Equivalent to OECD 405, 24 hours, Rabbit, Experimental value, Single treatment. Skin, Non-irritating, 4 t, 4; 24; 48; 72 hours, rabbit, experimental value.</p> <p>Sensitizing for skin and respiratory tract</p> <p>1-methoxy-2-propanol (CAS 107-98-2); Skin, Non-sensitizing, Equivalent to EU Method B.6, Guinea pig (male/female), Experimental value. Skin, Non-sensitizing, Equivalent to Maguire method (1973), 24; 48 hours, Guinea pig (male), Experimental value</p> <p>propan-2-ol (CAS 67-63-0); Skin, Non-sensitizing, OECD 406, Guinea pig (male/female), Experimental value</p> <p>Specific organ toxicity</p> <p>1-methoxy-2-propanol (CAS 107-98-2); Oral (gastric tube), NOAEL, Equivalent to OECD 407, 919 mg/kg body weight/day, No effect, 7 weeks (5 days/week), Rat (male), Experimental value. Oral (gastric tube), NOAEL, Equivalent to OECD 407, 2757 mg/kg body weight/day, Cumulative effects, 7 weeks (5 days/week), Rat (male), Experimental value. Dermal, NOAEL, Equivalent to OECD 410, > 1000 mg/kg body weight/day, No effect, 3 weeks (5 days/week), Rabbit (male/female), Experimental value. Inhalation (vapour), NOAEL, Equivalent to OECD 413, 1000 ppm, No effect, 13 weeks (6h/day, 5 days/week), Rat (male/female), Experimental value.</p>

Inhalation, dose level, Human observation, 1000 ppm, Central nervous system depression, < 7 h, Human, Experimental value.

propan-2-ol (CAS 67-63-0);

Oral, data dropout.

Dermal, data dropout.

Inhalation (vapour), NOAEC, OECD 451, 5000 ppm, No effect, 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.

Mutagenicity (in vitro)

1-methoxy-2-propanol (CAS 107-98-2);

Negative with metabolic activation, negative without metabolic activation, Equivalent to OECD 473, Chinese hamster ovary (CHO), No effect, Experimental value

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

Negative with metabolic activation, Equivalent to OECD 476, Chinese hamster ovary (CHO), No effect, Experimental value.

propan-2-ol (CAS 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.

Mutagenicity (in vivo)

1-methoxy-2-propanol (CAS 107-98-2);

Negative (intraperitoneal), Equivalent to OECD 474, Mouse (male/female), No effect, Experimental value.

propan-2-ol (CAS 67-63-0);

Negative (intraperitoneal), Equivalent to OECD 474, Mouse (male/female), No effect, Experimental value.

Carcinogenic properties

1-methoxy-2-propanol (CAS 107-98-2);

Inhalation (vapour), NOAEL , OECD 453, 3000 ppm, 104 weeks (6h/day, 5 days/week), Rat (male/female), No carcinogenic effect, Experimental value.

propan-2-ol (CAS 67-63-0);

Inhalation (vapour), NOEL, OECD 451, 5000 ppm, 104 weeks (6h/day, 5 days/week), Rat (male/female), No carcinogenic effect, Experimental value.

Reproductive toxicity

1-methoxy-2-propanol (CAS 107-98-2);

Assessment of germ cell mutagenicity, classification Assessment of carcinogenicity, classification Assessment of reproductive toxicity, classification Assessment of specific target organ toxicity - single exposure, classification Assessment of specific target organ toxicity - repeated exposure, classification Assessment of aspiration hazard, classification	Developmental toxicity (Inhalation), NOAEL, Equivalent to OECD 414, 1500 ppm, 10 days (6h/day), Rat, No effect, Experimental value. Maternal toxicity (Inhalation), NOAEL, Equivalent to OECD 414, 1500 ppm, 10 days (6h/day), Rat, No effect, Experimental value. Effects on fertility (Inhalation), NOAEL, OECD 416, 300 ppm, Rat (male/female), No effect, Experimental value.
	propan-2-ol (CAS 67-63-0); Developmental toxicity (Oral (gastric tube)), NOAEL, Equivalent to OECD 414, 400 mg/kg body weight/day, 10 days, Rat, No effect, 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.
	Other toxicity:
	1-methoxy-2-propanol (CAS 107-98-2); Inhalation (vapour), Central nervous system (drowsiness), Literature value.
	Based on available data, the classification criteria are not met.
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Symptoms of exposure

In case of ingestion	None known.
In case of skin contact	None known.
In case of inhalation	None known.
In case of eye contact	None known.

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. 1-methoxy-2-propanol (CAS 107-98-2);
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Acute toxicity fish, LC50, OECD 203, > 1000 mg/l, *Oncorhynchus mykiss*, Semi-Static system, 96 h, Fresh water Experimental value; Nominal concentration
 Acute toxicity to crustaceans, LC50, ESR-ES-15, 21100 - 25900 mg/l, *Daphnia magna*, Static system, 48 h, Fresh water, Experimental value; Motion effect.
 Toxicity to algae and other aquatic plants, ErC50, > 1000 mg/l, *Pseudokirchneriella subcapitata*, Static system, 7 days, Fresh water, Experimental value; Nominal concentration.
 Toxicity aquatic microorganisms, IC50, OECD 209, > 1000 mg/l, Activated sludge, Static system, 3 h, Fresh water, Experimental value; GLP.

propan-2-ol (CAS 67-63-0);

Acute toxicity fish, LC50, Equivalent to OECD 203, 9640 mg/l - 10000 mg/l, *Pimephales promelas*, Flow-through system, 96 hours, Fresh water, Experimental value; Deadly.

Acute toxicity to crustaceans, LC50, Equivalent to OECD 202, > 10000 mg/l, *Daphnia magna*, Static system, 24 hours, Fresh water, Experimental value; Motion effect.

Toxicity to algae and other aquatic plants, Toxicity threshold, 1800 mg/l, *Scenedesmus quadricauda*, Static system, 7 day(s), Fresh water, Experimental value; Toxicity test.

Long-term toxicity fish, NOELR, Petrotox computer model, > 1000 mg/l, 28 days, *Brachydanio rerio*, Estimated value,

Long-term toxicity aquatic crustacean, NOEC, 141 mg/l, 16 hours, *Pseudomonas putida*, Static system, Fresh water, Experimental value; toxicity test.

Toxicity aquatic microorganisms, Toxicity threshold, Equivalent to DIN 38412/8, 1050 mg/l, *Pseudomonas putida*, Static system, 16 hours, Fresh water, Experimental value; Toxicity test.

EC50, ISO 8192, 41676 mg/l, 30 minutes, Activated sludge, Experimental value.

12.2. Persistence and degradability

Persistence and degradability description/evaluation

The chemical is biodegradable.
 Contains substances that are not considered readily biodegradable.
 1-methoxy-2-propanol (CAS 107-98-2);
 Biological degradation, water:
 OECD 301E, 96%; GLP, 28 day(s), Experimental value.
 Phototransformation air (DT50 air):
 AOPWIN v1.92, 7.8 t, 1.5E6 /cm³, Calculated value

propan-2-ol (CAS 67-63-0);
 Biological degradation, 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

12.3. Bioaccumulative potential

Bioaccumulation, evaluation

The chemical does not contain any substances that are considered bioaccumulative.

Bioaccumulation, comments

1-methoxy-2-propanol (CAS 107-98-2);
 Log Kow,
 Corresponds to OECD 117, < 1, 20 °C, Experimental value.

propan-2-ol (CAS 67-63-0);
BCF Fisker,
BCF, BCFBAF v3.01, 1015, Estimated value
Log Kow,
0.05, 25 °C

12.4. Mobility in soil

Mobility	<p>Soluble in water.</p> <p>Contains component(s) with the potential for mobility in soil.</p> <p>1-methoxy-2-propanol (CAS 107-98-2); Log Koc, SRC PCKOCWIN v2.0, 0.15, Calculated value</p> <p>propan-2-ol (CAS 67-63-0); Log Koc, SRC PCKOCWIN v2.0, 0.185 - 0.541, Calculated value</p>
Known or predicted distribution to environmental compartments	Mackay Level I. Fraktion air: 9,4 %, fraktion biota: 0 %, fraktion sediment: 0,01 %, fraktion soil: 0,01 %, fraktion water: 91 %. Applies to CAS 107-98-2.

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	<p>The chemical contains substances known to contribute to the greenhouse effect. Danger of drinking water pollution (ground water). Applies to Multiclean & CAS-nr: 67-63-0 & 107-98-2.</p> <p>Do not allow to enter into sewer, water system or soil.</p>

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Disposed of as hazardous waste by approved contractor. The waste code (EWC-Code) is intended as a guide. The code must be chosen by the user, if the use differs from the one mentioned below.
EWC waste code	EWC waste code: 140603 other solvents and solvent mixtures Classified as hazardous waste: Yes
EWL packing	EWC waste code: 150110 packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste: Yes
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

ADR/RID/ADN	AEROSOLS
IMDG	AEROSOLS
ICAO/IATA	AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR/RID/ADN	2.1
IMDG	2.1
ICAO/IATA	2.1

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
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ADR/RID Other information

Tunnel restriction code	D
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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: 16 VOC value: 151,6 g/l
References (laws/regulations)	<p>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments.</p> <p>Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments.</p> <p>FOR 2004-06-01 No. 922: Norwegian regulation regarding restrictions on the use of health-hazardous chemicals and other products (Produktforskriften), as amended; § § 2-12, 2-14 Detergents.</p> <p>Norwegian regulations on waste, no. 930/2004, from Ministry of the Environment with later amendments.</p> <p>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.</p> <p>Norwegian regulation FOR-1996-03-01 no. 229 with later amendments: Forskrift om aerosolbeholdere.</p>

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.
List of relevant H-phrases (Section 2 and 3)	<p>H220 Extremely flammable gas.</p> <p>H222 Extremely flammable aerosol.</p> <p>H225 Highly flammable liquid and vapour.</p> <p>H226 Flammable liquid and vapour.</p> <p>H229 Pressurised container: May burst if heated.</p> <p>H280 Contains gas under pressure; may explode if heated.</p> <p>H319 Causes serious eye irritation.</p> <p>H336 May cause drowsiness or dizziness.</p>
CLP classification, comments	Aerosol 1; H222, H229; test
Key literature references and sources for data	Suppliers Safety data sheet dated: 16.04.2024.
Abbreviations and acronyms used	<p>ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</p> <p>DNEL: Derived No Effect Level</p> <p>EC50: The effective concentration of substance that causes 50% of the maximum response</p> <p>IATA: The International Air Transport Association</p> <p>ICAO: The International Civil Aviation Organisation</p> <p>IMDG: The International Maritime Dangerous Goods Code</p> <p>IMO: International Maritime Organization</p> <p>LC50: Median concentration lethal to 50% of a test population.</p> <p>LD50: Lethal dose, is the amount of a substance given to a group of test animals,</p>

	<p>which causes the death of 50%.</p> <p>NOEC: No observed effect concentration</p> <p>NOEL: No Observed Effect Level. The highest tested dose or exposure level at which, in a study, no statistically significant effect is observed in the exposed population compared with an appropriate control group.</p> <p>OECD: Organisation for Economic Cooperation and Development.</p> <p>PBT: Persistent, Bioaccumulative and Toxic</p> <p>PNEC: Predicted No Effect Concentration</p> <p>RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail</p> <p>VOC: Volatile Organic Compounds</p> <p>vPvB: very Persistent and very Bioaccumulative</p>
Information added, deleted or revised	Sections that have changed from the 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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