Hraniclean Soft Line

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 9/15/2023 Revision date: 8/14/2025 Supersedes version of: 3/28/2024 Version: 3.0

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

1.1. Product identifier

Product form : Mixture
Product name : Hraniclean Soft Line
UFI : MYS2-H0QH-K00Q-WRUG

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

Relevant identified uses

Intended for general public
Main use category : Consumer use
Use of the substance/mixture : Household cleaning product

1.3. Details of the supplier of the safety data sheet

Distributor
Hranipex Czech Republic k.s.
J. Rýznerové 97, Komorovice
CZ 396 01 Humpolec
Czech Republic
T +420 565 501 211
cz-hranipex@hranipex.com, www.hranipex.cz
E-mail address of competent person responsible for the SDS :
sds@regartis.com

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3	H226
Serious eye damage/eye irritation, Category 2	H319

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

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS02 GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H226 - Flammable liquid and vapour.
H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements : EUH208 - Contains CMIT/MIT (55965-84-9). May produce an allergic reaction.

Extra phrases : Treated article, contains preservation agents: CMIT/MIT, Bronopol (INN)
Perfume (Citral, Limonene, Hexyl Cinnamal, Linalool, Benzyl benzoate, Citronellol)

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propan-2-ol; isopropyl alcohol; isopropanol	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25-xxxx	10 – 15	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
2-butoxyethanol; ethylene glycol monobutyl ether	CAS-No.: 111-76-2 EC-No.: 203-905-0 EC Index-No.: 603-014-00-0 REACH-no: 01-2119475108-36	1 – 3	Acute Tox. 3 (Inhalation:vapour), H331 (ATE=3 mg/l) Acute Tox. 4 (Oral), H302 (ATE=1200 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319
Sorbitan monooleate, ethoxylated	CAS-No.: 9005-65-6 EC-No.: 500-019-9	< 2	Aquatic Chronic 3, H412

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates	CAS-No.: 96690-44-7 EC-No.: 306-238-4 REACH-no: 01-2120770734-48	≤ 0.05	Acute Tox. 4 (Oral), H302 (ATE=570 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=429 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	CAS-No.: 52-51-7 EC-No.: 200-143-0 EC Index-No.: 603-085-00-8	≤ 0.02	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10)
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC-No.: 911-418-6 EC Index-No.: 613-167-00-5	< 0.0015	Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Oral), H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071

Specific concentration limits:		
Name	**Product identifier**	**Specific concentration limits (%)**
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC-No.: 911-418-6 EC Index-No.: 613-167-00-5	(0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317 (0.06 ≤ C < 0.6) Eye Irrit. 2; H319 (0.06 ≤ C < 0.6) Skin Irrit. 2; H315 (0.6 ≤ C ≤ 100) Eye Dam. 1; H318 (0.6 ≤ C ≤ 100) Skin Corr. 1C; H314

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention. If possible, show the doctor this safety data sheet. Failing this, show the doctor the packaging or label. If unconscious, place in the recovery position. Never give anything by mouth to an unconscious person. Immediately remove contaminated clothing or footwear.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if necessary. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact : Remove immediately contaminated clothing, wash affected skin area with plenty of cold or lukewarm water. If no injury to skin occurred, it is recommended to use soap, soap solution or shampoo. Call a physician!.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Keep the affected person at rest. Rinse mouth thoroughly with water. Do not give an unconscious person anything to drink. If vomiting occurs have person lean forward. Seek medical attention immediately.

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

Symptoms/effects after eye contact : Eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : On burning: release of carbon monoxide - carbon dioxide. Hydrocarbons. Aldehydes. High temperature decomposition products are harmful by inhalation.

5.3. Advice for firefighters

Firefighting instructions : Ensure adequate ventilation. Do not breathe fumes from fires or vapours from decomposition. Cool down the containers exposed to heat with a water spray. Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all unnecessary exposure. Ensure adequate ventilation. Do not breathe vapours. Eliminate every possible source of ignition.

For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Do not allow the mixture to enter into sewer, water system (underground water, surface water) or soil.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect all waste in suitable and labelled containers and dispose according to local legislation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep out of reach of children. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Do not breathe vapours. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wear personal protective equipment. Keep away from food, drink and animal feedingstuffs.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in properly labelled containers.

Storage conditions : Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store at room temperature.

Incompatible products : Strong acids. Strong oxidizing agents.

Storage temperature : < 50 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Butoxyethanol
IOEL TWA	98 mg/m³
	20 ppm
IOEL STEL	246 mg/m³
	50 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Ireland - Occupational Exposure Limits	
Local name	2-Butoxyethanol (EGBE)
OEL TWA	98 mg/m³
	20 ppm
OEL STEL	246 mg/m³
	50 ppm
Remark	IOELV (Indicative Occupational Exposure Limit Values), Skin (Substances which have the capacity to penetrate intact skin when they come in contact with it and be absorbed into the body. A substantial contribution to the total body burden via dermal exposure is possible)
Regulatory reference	Chemical Agents Code of Practice 2024
Ireland - Biological limit values	
Local name	2-Butoxyethanol
BMGV	200 mg/g creatinine Parameter: BAA - Medium: urine - Sampling time: End of shift
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Ireland - Occupational Exposure Limits	
Local name	Isopropyl alcohol [Propan-2-ol]

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
OEL TWA	200 ppm
OEL STEL	400 ppm
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values), Skin (Substances which have the capacity to penetrate intact skin when they come in contact with it and be absorbed into the body. A substantial contribution to the total body burden via dermal exposure is possible)
Regulatory reference	Chemical Agents Code of Practice 2024
Ireland - Biological limit values	
Local name	2-Propanol
BMGV	40 mg/l Parameter: acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B (Background), Ns (Non-specific)
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)

DNEL and PNEC

2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	246 mg/m³
Long-term - systemic effects, inhalation	98 mg/m³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	147 mg/m³
Long-term - systemic effects,oral	6.3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	59 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	8.8 mg/l
PNEC aqua (marine water)	0.88 mg/l
PNEC aqua (intermittent, freshwater)	26.4 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	34.6 mg/kg dwt
PNEC sediment (marine water)	3.46 mg/kg dwt
PNEC (Soil)	
PNEC soil	2.33 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	0.02 g/kg food
PNEC (STP)	
PNEC sewage treatment plant	463 mg/l

Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates (96690-44-7)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	1 mg/m³
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	1 mg/m³

Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates (96690-44-7)	
PNEC (Water)	
PNEC aqua (freshwater)	10.3 ng/l
PNEC aqua (marine water)	1.03 ng/l
PNEC aqua (intermittent, freshwater)	0.103 µg/l
PNEC aqua (intermittent, marine water)	0.0103 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.0291 mg/kg dwt
PNEC sediment (marine water)	2.91 µg/kg dw
PNEC (Soil)	
PNEC soil	5.82 µg/kg dw
PNEC (STP)	
PNEC sewage treatment plant	0.9 mg/l

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
DNEL/DMEL (Workers)	
Acute - local effects, dermal	8 µg/cm²
Long-term - systemic effects, dermal	2 mg/kg bodyweight/day
Long-term - local effects, dermal	8 µg/cm²
Long-term - systemic effects, inhalation	3.5 mg/m³
Long-term - local effects, inhalation	2.5 mg/m³
DNEL/DMEL (General population)	
Acute - local effects, dermal	4 µg/cm²
Long-term - systemic effects,oral	0.18 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.6 mg/m³
Long-term - systemic effects, dermal	0.7 mg/kg bodyweight/day
Long-term - local effects, dermal	4 µg/cm²
Long-term - local effects, inhalation	0.6 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.001 mg/l
PNEC aqua (marine water)	0.001 mg/l
PNEC aqua (intermittent, freshwater)	0 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.021 mg/kg dwt
PNEC sediment (marine water)	0.009 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.21 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.43 mg/l

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	0.04 mg/m³
Long-term - local effects, inhalation	0.02 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	0.11 mg/kg bodyweight/day
Acute - local effects, inhalation	0.04 mg/m³
Long-term - systemic effects,oral	0.09 mg/kg bodyweight/day
Long-term - local effects, inhalation	0.02 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	3.39 µg/l
PNEC aqua (marine water)	3.39 µg/l
PNEC aqua (intermittent, freshwater)	3.39 µg/l
PNEC aqua (intermittent, marine water)	3.39 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.027 mg/kg dwt
PNEC sediment (marine water)	0.027 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.01 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.23 mg/l

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	888 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	500 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	26 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	89 mg/m³
Long-term - systemic effects, dermal	319 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	140.9 mg/l
PNEC aqua (marine water)	140.9 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	552 mg/kg dwt
PNEC sediment (marine water)	552 mg/kg dwt
PNEC (Soil)	
PNEC soil	28 mg/kg dwt

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Personal protection equipment

Eye and face protection

Eye protection:
tightly fitting safety goggles

Skin protection

Skin and body protection:
Wear suitable working clothes. Protective shoes

Hand protection:
Wear protective gloves. Nitrile rubber. Butyl rubber. Follow the glove manufacturer's specific recommendations when selecting the appropriate thickness, material, and permeability.

Respiratory protection

Respiratory protection:
Wear suitable respiratory equipment in case of insufficient ventilation. Wear appropriate mask. Type AX - Low-boiling (<65 °C) organic compounds. Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust

Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.
Other information:
Always wash hands after handling the product. Avoid contact with skin and eyes. Do not eat, drink or smoke in areas where product is used. Remove all contaminated clothing and footwear.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Colourless.
Odour	:	According to the perfume used.
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Flammable liquid and vapour.
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	≈ 35 °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not available
Viscosity, kinematic	:	Not available
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	≈ 1 g/cm³
Relative density	:	Not available
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

9.2. Other information

Other safety characteristics

VOC content : ≈ 0.1 kg/kg

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Overheating.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. On burning: release of carbon monoxide - carbon dioxide. Hydrocarbons. Aldehydes.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
LD50 oral	1414 mg/kg Guinea pig
LD50 dermal	> 2000 mg/kg
LC50 Inhalation - Rat [ppm]	> 691 ppm

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
LD50 oral rat	193 mg/kg OECD 401
LD50 dermal rat	> 2000 mg/kg bodyweight OECD 402
LC50 Inhalation - Rat	≥ 0.588 mg/l

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LD50 oral rat	200 mg/kg OECD 423
LD50 dermal rat	> 1008 mg/kg OECD 402
LC50 Inhalation - Rat	1.23 mg/l/4h

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LD50 oral rat	5.84 g/kg OECD 401
LD50 dermal rat	16.4 ml/kg OECD 402

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LC50 Inhalation - Rat [ppm]	> 10000 ppm OECD 403

Sorbitan monooleate, ethoxylated (9005-65-6)	
LC50 Inhalation - Rat	> 5.1 mg/l

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
NOAEL (chronic, oral, animal/male)	7 mg/kg bodyweight

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
NOAEL (animal/male, F0/P)	720 mg/kg bodyweight

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
NOAEL (systemic toxicity)	10 mg/kg bodyweight
NOAEL (reproductive toxicity)	50 mg/kg bodyweight

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
NOAEL (animal/male, F0/P)	500 mg/kg OECD 416
NOAEL (animal/male, F1)	100 mg/kg
NOAEL (developmental toxicity)	≥ 596 mg/kg

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
STOT-single exposure	May cause respiratory irritation.

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
NOAEL (oral, rat, 90 days)	< 69 mg/kg bodyweight/day OECD 408
NOAEL (dermal, rat/rabbit, 90 days)	> 150 mg/kg bodyweight OECD 411
NOAEC (inhalation, rat, vapour, 90 days)	< 31 ppm OECD 453

Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates (96690-44-7)	
NOAEL (oral, rat, 90 days)	≈ 40 mg/kg bodyweight OECD 408
NOAEL (dermal, rat/rabbit, 90 days)	10 mg/kg bodyweight OECD 410

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
LOAEL (oral, rat, 90 days)	32 mg/kg bodyweight/day
NOAEL (oral, rat, 28 days)	7 mg/kg bodyweight/day
NOAEL (dermal, rat/rabbit, 28 days)	2 mg/kg bodyweight/day

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LOAEL (dermal, rat/rabbit, 90 days)	0.525 mg/kg bodyweight EPA OPP 82-3, 90d

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
NOAEL (oral, rat, 90 days)	22 mg/kg bodyweight/day OECD 409
NOAEL (dermal, rat/rabbit, 90 days)	0.105 mg/kg bodyweight/day
NOAEC (inhalation, rat, 90 days)	0.34 mg/l OECD 413

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
NOAEC (inhalation, rat, vapour, 90 days)	5000 ppm OECD 451

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long–term (chronic) : Not classified (Based on available data, the classification criteria are not met)

2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
LC50 - Fish [1]	1474 mg/l Oncorhynchus mykiss, OECD 203
EC50 - Crustacea [1]	≈ 1800 mg/l Daphnia magna, OECD 202
EC50 72h - Algae [1]	> 1000 mg/l Raphidocelis subcapitata, OECD 201
NOEC (chronic)	100 mg/l Daphnia magna '21 d'
NOEC chronic fish	≥ 100 mg/l Oryzias latipes, '14 d'
NOEC chronic algae	62.5 mg/l Raphidocelis subcapitata

Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates (96690-44-7)	
LC50 - Fish [1]	45 mg/l Danio rerio
EC50 - Crustacea [1]	0.1001 mg/l Daphnia magna

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
LC50 - Fish [1]	11 mg/l Lepomis macrochirus, OECD 203
EC50 - Crustacea [1]	1.4 mg/l Daphnia magna
EC50 72h - Algae [1]	0.25 mg/l Skeletonema costatum
EC50 72h - Algae [2]	0.37 mg/l Raphidocelis subcapitata
LOEC (chronic)	0.88 mg/l Daphnia magna '21 d'
NOEC (chronic)	0.27 mg/l Daphnia magna '21 d'
NOEC chronic fish	2.61 mg/l Oncorhynchus mykiss
NOEC chronic crustacea	0.27 mg/l Daphnia magna

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LC50 - Fish [1]	0.19 mg/l Oncorhynchus mykiss

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LC50 - Fish [2]	0.28 mg/l Lepomis macrochirus
EC50 - Crustacea [1]	0.16 mg/l Daphnia magna
EC50 72h - Algae [1]	0.027 mg/l OECD 201
NOEC (chronic)	0.1 mg/l Daphnia magna, '21 d'
NOEC chronic fish	0.13 mg/l Oncorhynchus mykiss, '28 d'

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LC50 - Fish [1]	10000 mg/l Pimephales promelas, OECD 203
LC50 - Fish [2]	9640 mg/l Pimephales promelas
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna, OECD 202
EC50 72h - Algae [1]	1800 mg/l Scenedesmus quadricauda

12.2. Persistence and degradability

Hraniclean Soft Line	
Persistence and degradability	No information available.

2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
Persistence and degradability	Readily biodegradable.
Biodegradation	100 %

Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates (96690-44-7)	
Persistence and degradability	Biodegradable.

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
Persistence and degradability	Not readily biodegradable. Hydrolyzes quickly in aqueous environment.

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
Persistence and degradability	Biodegradable.

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Persistence and degradability	Readily biodegradable.
Biodegradation	100 %

Sorbitan monooleate, ethoxylated (9005-65-6)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

Hraniclean Soft Line	
Bioaccumulative potential	No information available.

2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
Partition coefficient n-octanol/water (Log Kow)	0.81 @ 20 °C

Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)	
Partition coefficient n-octanol/water (Log Kow)	0.15 @ 23 °C

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
Partition coefficient n-octanol/water (Log Kow)	0.75

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Partition coefficient n-octanol/water (Log Kow)	0.05 @ 25 °C

12.4. Mobility in soil

Hraniclean Soft Line	
Ecology - soil	No information available.

12.5. Results of PBT and vPvB assessment

Hraniclean Soft Line
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

Other adverse effects : No other effects known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapours may accumulate in the container.

European List of Waste (LoW, EC 2000/532) : 20 01 29* - detergents containing dangerous substances
15 01 02 - plastic packaging

SECTION 14: Transport information

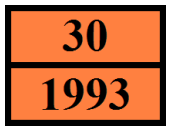
In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping name				
FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	Flammable liquid, n.o.s.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
Transport document description				
UN 1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol), 3, III, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol), 3, III	UN 1993 Flammable liquid, n.o.s. (propan-2-ol; isopropyl alcohol; isopropanol), 3, III	UN 1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol), 3, III	UN 1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol), 3, III
14.3. Transport hazard class(es)				
3	3	3	3	3

ADR	IMDG	IATA	ADN	RID
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-E EmS-No. (Spillage): S-E	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

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

Transport by sea

Special provisions (IMDG)	:	223, 274, 955
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	LP01, P001
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	T4
Tank special provisions (IMDG)	:	TP1, TP29
Stowage category (IMDG)	:	A

Air transport

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

ERG code (IATA)	:	3L

Inland waterway transport

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

Rail transport

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

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	**Applicable on**	**Entry title or description**
3(a)	Hraniclean Soft Line ; propan-2-ol; isopropyl alcohol; isopropanol	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	Hraniclean Soft Line ; 2-butoxyethanol; ethylene glycol monobutyl ether ; Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) ; propan-2-ol; isopropyl alcohol; isopropanol	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

EU restriction list (REACH Annex XVII)		
Reference code	**Applicable on**	**Entry title or description**
3(c)	Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) ; Sorbitan monooleate, ethoxylated	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

VOC content : ≈ 0.1 kg/kg

Explosives Precursors Regulation (EU 2019/1148)

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

Drug Precursors Regulation (EC 273/2004)

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes		
Section	**Changed item**	**Comments**
1.2	Use of the substance/mixture	**Modified**
3	Composition/information on ingredients	**Modified**
10.6	Hazardous decomposition products	**Modified**
11.1	Toxicological information	**Added**
12.	Ecology - general	**Modified**

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate

Abbreviations and acronyms:	
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Data sources : ECHA Guidance on the compilation of safety data sheets
ECHA C&L Inventory database. Supplier's safety documents.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements:	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)(55965-84-9). May produce an allergic reaction.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 3	H226	On basis of test data
Eye Irrit. 2	H319	Calculation method

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