

Hraniclean 08

Issue date: 12/1/2015

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Revision date: 6/4/2024 Supersedes version of: 8/1/2023

Version: 5.0

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

1.1. Product identifier

Product form : Mixture
Trade name : Hraniclean 08
UFI : 4SU2-506V-1003-TX2U

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Professional use, Consumer use
Use of the substance/mixture : Dark decor cleaner in the furniture industry.

1.2.2. Uses advised against

No additional information available

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

Supplier

Hranipex Ltd.
Unit 2 Radial Park, Birmingham Business Park
Birmingham, B37 7YN
United Kingdom
T +44 121 767 9180, F 0121 782 6250
uk-hranipex@hranipex.com, www.hranipex.co.uk

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

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
Skin sensitisation, Category 1 H317

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Specific target organ toxicity – Single exposure, Category 3, H336
 Narcosis
 Aspiration hazard, Category 1 H304
 Hazardous to the aquatic environment – Chronic Hazard, H412
 Category 3

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Contains :

(R)-p-mentha-1,8-diene; d-limonene; Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hazard statements (CLP) :

H226 - Flammable liquid and vapour.
 H304 - May be fatal if swallowed and enters airways.
 H317 - May cause an allergic skin reaction.
 H336 - May cause drowsiness or dizziness.
 H412 - Harmful to aquatic life with long lasting effects.

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.
 P280 - Wear protective gloves.
 P301+P310 - IF SWALLOWED: Immediately call a doctor.
 P312 - Call a POISON CENTER if you feel unwell.
 P331 - Do NOT induce vomiting.
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements :

EUH066 - Repeated exposure may cause skin dryness or cracking.

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

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EC-No.: 927-241-2 REACH-no: 01-2119471843-32	30 – 80	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 EUH066
Ethanol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	10 – 40	Flam. Liq. 2, H225
(R)-p-mentha-1,8-diene; d-limonene	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-096-00-2 REACH-no: 01-2119493353-35	1 – 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412

Comments

: Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

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 medical advice is needed, have product container or label at hand. Medical personnel should be made aware of substance(s) involved and take measures for self protection. Wear proper protective equipment. If breathing is difficult, trained personnel should give oxygen. If unconscious, place in the recovery position. Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest. Give oxygen or artificial respiration if necessary. Get medical advice/attention.
First-aid measures after skin contact	: Take off immediately all contaminated clothing and wash it before reuse. Flush with lukewarm water for 15 minutes. Wash skin thoroughly with mild soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Never attempt to induce vomiting : risk of inhalation. If vomiting occurs have person lean forward. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects after inhalation	: Cough. Headache. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. Risk of lung oedema.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable liquid and vapour.
 Explosion hazard : May form flammable/explosive vapour-air mixture.
 Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide. Other toxic gases. Exposure to combustion or decomposition products can be harmful to your health.

5.3. Advice for firefighters

- Precautionary measures fire : Evacuate area. Stop leak if safe to do so.
 Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
 Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Ensure adequate ventilation. No open flames. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Do not breathe vapour/aerosol. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid breathing vapours. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

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

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Clean contaminated surfaces with an excess of water. Do not use solvents.

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

- Additional hazards when processed : Keep away from ignition sources (including static discharges). Handle empty containers with care because residual vapours are flammable. Ensure adequate air ventilation.
 Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Avoid contact with : combustibles and flammable materials. Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Use only outdoors or in a well-ventilated area.
 Hygiene measures : Do not eat, drink or smoke when using this product. Remove contaminated clothes. Wash contaminated clothing before reuse. Always wash hands after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep in fireproof place. Keep container tightly closed.
Incompatible products	: oxidants, strong acids and strong bases.
Information on mixed storage	: Storage class: 3
Storage area	: Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Ethanol (64-17-5)	
United Kingdom - Occupational Exposure Limits	
Local name	Ethanol
WEL TWA (OEL TWA)	1920 mg/m ³
	1000 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

Monitoring methods	
Monitoring methods	Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents.

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	9.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	66.7 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	14 µg/L
PNEC aqua (marine water)	1.4 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	3.85 mg/kg dwt
PNEC sediment (marine water)	0.385 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.763 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1.8 mg/l

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DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	208 mg/kg bw/day
Long-term - systemic effects, inhalation	871 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	125 mg/kg bw/day
Long-term - systemic effects, inhalation	185 mg/m ³
Long-term - systemic effects, dermal	125 mg/kg bw/day

Ethanol (64-17-5)

DNEL/DMEL (Workers)

Acute - local effects, inhalation	1900 mg/m ³
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	950 mg/m ³

DNEL/DMEL (General population)

Acute - local effects, inhalation	950 mg/m ³
Long-term - systemic effects, oral	87 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	114 mg/m ³
Long-term - systemic effects, dermal	206 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	0.96 mg/l
PNEC aqua (marine water)	0.79 mg/l
PNEC aqua (intermittent, freshwater)	2.75 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	3.6 mg/kg dwt
PNEC sediment (marine water)	2.9 mg/kg dwt

PNEC (Soil)

PNEC soil	0.63 mg/kg dwt
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PNEC (Oral)

PNEC oral (secondary poisoning)	720 mg/kg food
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PNEC (STP)

PNEC sewage treatment plant	580 mg/l
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8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Ventilation, local exhaust, or breathing protection.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. Wear recommended personal protective equipment.

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8.2.2.1. Eye and face protection

Eye protection:

Not required for normal conditions of use

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Chemical resistant gloves (according to European standard ISO 374-1 or equivalent)

8.2.2.3. Respiratory protection

Respiratory protection:

A mask with a filter against organic vapors in a poorly ventilated environment.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use. Wash protective equipment and clothing before reuse. Do not breathe vapors.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: like: Hydrocarbons.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: -114.1 °C Ethanol
Boiling point	: 78.3 °C Ethanol
Flammability	: Not applicable
Explosive properties	: Not explosive.
It does not have oxidising properties	: Non oxidizing.
Lower explosion limit	: 3.9 vol % (CAS 64-17-5)
Upper explosion limit	: 20 vol % (CAS 64-17-5)
Flash point	: 27 °C (Ethanol 14 °C)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: substance/mixture is non-polar/aprotic
Viscosity, kinematic	: Not available
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 57 hPa Ethanol
Vapour pressure at 50°C	: Not available
Density	: 0.77 g/cm ³ @ 20 °C (± 1,5 %)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content	: 0.99 kg/kg
Other properties	: Total organic carbon (TOC): 0,7 kg/kg

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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 of use.

10.3. Possibility of hazardous reactions

Heating may cause a fire or explosion.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong acids, strong bases and strong oxidants.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature.

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)

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ATE CLP (oral)	16680000 mg/kg
ATE CLP (dust,mist)	16680 mg/l
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
LD50 oral rat	> 2000 mg/kg
Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 5000 mg/l/4h
Ethanol (64-17-5)	
LD50 oral rat	14740 mg/kg
LD50 dermal rabbit	> 15800 mg/kg
LC50 Inhalation - Rat	124.7 mg/l

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: substance/mixture is non-polar/aprotic

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: substance/mixture is non-polar/aprotic

Respiratory or skin sensitisation : May cause an allergic skin reaction.

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)

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

STOT-single exposure : May cause drowsiness or dizziness.

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Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
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Aspiration hazard	: May be fatal if swallowed and enters airways.
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11.2. Information on other hazards

11.2.1. 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 %
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11.2.2. Other information

No additional information available

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)
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Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.
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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)

LC50 - Fish [1]	0.46 mg/l
EC50 - Crustacea [1]	0.307 mg/l
ErC50 algae	0.32 mg/l (Selenastrum capricornutum)
NOEC chronic fish	< 0.67 mg/l
NOEC chronic crustacea	188 µg/L

Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

LC50 - Fish [1]	10 – 30 mg/l
EC50 - Crustacea [1]	22 – 46 mg/l
EC50 72h - Algae [1]	> 1000 mg/l
NOELR algae	< 1 mg/l

Ethanol (64-17-5)

LC50 - Fish [1]	14.2 g/l
EC50 - Crustacea [1]	5012 mg/l
EC50 72h - Algae [1]	275 mg/l

12.2. Persistence and degradability

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Persistence and degradability	No information available.
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Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Biodegradation	89 % 28d
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Ethanol (64-17-5)

Persistence and degradability	Rapidly degradable
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12.3. Bioaccumulative potential

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Bioaccumulative potential	No information available.
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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)

Partition coefficient n-octanol/water (Log Kow)	4.38 @ 37°C
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Ethanol (64-17-5)

Partition coefficient n-octanol/water (Log Pow)	-0.35
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12.4. Mobility in soil

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Ecology - soil	No information available.
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12.5. Results of PBT and vPvB assessment

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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.
 Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.
 Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.
 Sewage disposal recommendations : Do not dispose of waste into sewer.
 Product/Packaging disposal recommendations : Dispose of at authorized waste collection point. Empty containers can be used in energy incinerator or stored in a landfill in accordance with the relevant legislation.
 Additional information : Flammable vapours may accumulate in the container.
 Ecological information : Avoid release to the environment. Hazardous waste due to toxicity.
 European List of Waste (LoW, EC 2000/532) : 07 01 04* - other organic solvents, washing liquids and mother liquors
 15 01 10* - packaging containing residues of or contaminated by dangerous substances

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HP Code

- : HP3 - "Flammable:"
 - flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
 - flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
 - flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
 - flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
 - water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
 - other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
- HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.
- HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.
- HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

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 3295	UN 3295	UN 3295	UN 3295	UN 3295
14.2. UN proper shipping name				
HYDROCARBONS, LIQUID, N.O.S.	HYDROCARBONS, LIQUID, N.O.S.	Hydrocarbons, liquid, n.o.s.	HYDROCARBONS, LIQUID, N.O.S.	HYDROCARBONS, LIQUID, N.O.S.
Transport document description				
UN 3295 HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics), 3, III, (D/E)	UN 3295 HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics), 3, III	UN 3295 Hydrocarbons, liquid, n.o.s. (Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics), 3, III	UN 3295 HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics), 3, III	UN 3295 HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics), 3, III
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

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14.6. Special precautions for user

Overland transport

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

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

Transport by sea

Special provisions (IMDG)	: 223
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Immiscible with water.

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, A324
ERG code (IATA)	: 3L

Inland waterway transport

Classification code (ADN)	: F1
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
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19

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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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	Hraniclean 08 ; (R)-p-mentha-1,8-diene; d-limonene ; Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; Ethanol
3(b)	Hraniclean 08 ; (R)-p-mentha-1,8-diene; d-limonene ; Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
3(c)	Hraniclean 08 ; (R)-p-mentha-1,8-diene; d-limonene ; Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
40.	Hraniclean 08 ; (R)-p-mentha-1,8-diene; d-limonene ; Hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; Ethanol

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

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

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content : 0.99 kg/kg

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

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

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15.1.2. National regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP)

United Kingdom

British National Regulations

: Regulation (EC) No 1013/2006 of the European Parliament and of the Council on shipments of waste, in the valid wording.
 Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives, in the valid wording.
 UK Waste Regulations.
 UK REACH.
 GB CLP.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Supersedes	Modified	
	Revision date	Modified	
1.1	UFI on SDS 1.1	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Hazard pictograms (CLP)	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
4.2	Symptoms/effects after skin contact	Modified	
6.1	Protective equipment	Modified	
6.3	Other information	Removed	
6.3	For containment	Removed	
6.3	Methods for cleaning up	Modified	
8.2	Eye protection	Modified	
8.2	Respiratory protection	Modified	
9.1	pH	Added	
9.1	Viscosity, dynamic	Removed	
9.1	Flash point	Modified	
9.1	Auto-ignition temperature	Removed	
9.1	Freezing point	Modified	
9.1	Solubility	Modified	
9.1	Appearance	Removed	
9.1	Upper explosive limit (UEL)	Modified	
9.1	Lower explosive limit (LEL)	Modified	

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Indication of changes

Section	Changed item	Change	Comments
9.1	Vapour pressure	Modified	
9.1	Boiling point	Modified	
9.1	Density	Modified	
9.2	Other properties	Added	

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
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
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
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources	: ECHA Guidance on the compilation of safety data sheets ECHA C&L Inventory database. Supplier's safety documents.
Training advice	: Provide SDS to employees. Follow general rules on handling chemical substances and/or mixtures. Safety training for chemicals handling.

Full text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

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Full text of H- and EUH-statements:

H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

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
Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Calculation method
Asp. Tox. 1	H304	Expert judgement
Aquatic Chronic 3	H412	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.