

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

Issue date: 3/24/2018 Revision date: 5/31/2024 Supersedes version of: 6/18/2023 Version: 2.1

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

## 1.1. Product identifier

Product form : Mixture
Product name : Hraniclean 11

UFI : 7KT2-20J9-R006-J4WX

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

#### Relevant identified uses

Industrial/Professional use spec : For professional use only

Use of the substance/mixture : The cleaner of panels and edges in the furniture industry.

#### 1.3. Details of the supplier of the safety data sheet

Distributor Supplier

Hranipex Czech Republic k.s.

Hranipex Ltd.

Hranipex Ltd.

J. Rýznerové 97, Komorovice

Unit 2 Radial Park, Birmingham Business Park

CZ 396 01 Humpolec Birmingham, B37 7YN Czech Republic United Kingdom

T +420 565 501 211 T +44 121 767 9180, F 0121 782 6250

cz-hranipex@hranipex.com, www.hranipex.cz uk-hranipex@hranipex.com, www.hranipex.co.uk

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
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 2 H225 Specific target organ toxicity – Single exposure, Category 3, H336

Narcosis

Aspiration hazard, Category 1 H304 Hazardous to the aquatic environment – Chronic Hazard, H411 Category 2

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

#### Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Hazard pictograms (CLP)









GHS02

GHS07

GHS08

GHS09

Signal word (CLP) : Danger

Contains : Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P301+P310 - IF SWALLOWED: Immediately call a doctor.

P331 - Do NOT induce vomiting.

P370+P378 - In case of fire: Use extinguishing powder, sand, carbon dioxide (CO2) to

extinguish.

P391 - Collect spillage.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

#### 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]
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	EC-No.: 920-750-0 REACH-no: 01-2119473851- 33	60 – 70	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066
Ethanol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-	30 – 40	Flam. Liq. 2, H225



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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
cyclohexane	CAS-No.: 110-82-7 EC-No.: 203-806-2 EC Index-No.: 601-017-00-1	< 5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
butanone; ethyl methyl ketone	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3 REACH-no: 01-2119457290-	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
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	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ascorbic acid	CAS-No.: 50-81-7 EC-No.: 200-066-2	< 1	Eye Irrit. 2, H319

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 : First aider: Pay attention to self-protection!. Immediately remove contaminated or damp clothing. Move the affected person away from the contaminated area. In case of loss of consciousness, place the victim in the recovery position. Never give anything by mouth to an unconscious person. If vomiting occurs have person lean forward. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately. Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Cardiac arrest: perform resuscitation. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest. Call

a doctor.

First-aid measures after skin contact : Take off immediately all contaminated clothing. After contact with skin, wash immediately and thoroughly with water and soap. Wash contaminated clothing before reuse. If skin

irritation 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. Obtain medical

attention.

First-aid measures after ingestion : Rinse mouth out with water. Give 500 ml water to drink. Do not induce vomiting. Risk of

pneumonia. Call a physician immediately.

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

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after inhalation Cough. Headache.

Symptoms/effects after ingestion : Ingestion may cause nausea and vomiting. 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 : Dry powder. Alcohol resistant foam. 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 : Highly flammable liquid and vapour.

Explosion hazard : Vapours are heavier than air and may spread along floors. May form flammable/explosive

vapour-air mixture.

Hazardous decomposition products in case of fire : On burning: release of carbon monoxide - carbon dioxide. Exposure to combustion or

decomposition products can be harmful to your health. Do not breathe fumes from fires or

vapours from decomposition.

#### 5.3. Advice for firefighters

Precautionary measures fire : Evacuate area. Exercise caution when fighting any chemical fire. Do not breathe fumes.

Firefighting instructions : Move containers from fire area if it can be done without personal risk. Cool containers /

tanks with spray water if possible.

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

breathing apparatus. Complete protective clothing.

Other information : Prevent fire fighting water from entering the environment.

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Provide adequate ventilation. Remove ignition sources.

For non-emergency personnel

Protective equipment : Wear suitable protective clothing.

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with

skin, eyes and clothing. Do not breathe vapours. Stop leaks if it can be done without

personal risk.

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. In case of contamination of soil or water bodies notify the competent authorities.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Use spark-proof

mechanical equipment to collect the leaked product and place it in containers for recovery

or disposal. Notify authorities if product enters sewers or public waters.

Other information : Dispose of contaminated material at an authorized site.

### 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 away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid inhalation of

vapours. Use only outdoors or in a well-ventilated area. Keep container closed when not in

use. Wear personal protective equipment.

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## Safety Data Sheet



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Hygiene measures

: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

## 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation. Ground/bond container and receiving equipment. Keep in

properly labelled containers.

Storage conditions : Store tightly closed in a dry, cool and well-ventilated place. Store away from direct sunlight

or other heat sources.

Incompatible products : Strong acids, strong bases and strong oxidants.

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

smoking.

Information on mixed storage : Storage class: 3

#### 7.3. Specific end use(s)

No additional information available

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Ethanol (64-17-5)

National occupational exposure and biological limit values

Ethanoi (64-17-5)			
United Kingdom - Occupational Exposure Limits			
Local name	Ethanol		
WEL TWA (OEL TWA)	1920 mg/m³		
	1000 ppm		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
cyclohexane (110-82-7)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Cyclohexane		
IOEL TWA	700 mg/m³		
	200 ppm		
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC		
United Kingdom - Occupational Exposure Limits	United Kingdom - Occupational Exposure Limits		
Local name	Cyclohexane		
WEL TWA (OEL TWA)	350 mg/m³		
	100 ppm		
WEL STEL (OEL STEL)	1050 mg/m³		
	300 ppm		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
butanone; ethyl methyl ketone (78-93-3)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Butanone		
IOEL TWA	600 mg/m³		
	200 ppm		
IOEL STEL	900 mg/m³		



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butanone; ethyl methyl ketone (78-93-3)	
	300 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Butan-2-one (methyl ethyl ketone)
WEL TWA (OEL TWA)	600 mg/m³
	200 ppm
WEL STEL (OEL STEL)	899 mg/m³
	300 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
United Kingdom - Biological limit values	
Local name	Butan-2-one (methyl ethyl ketone)
BMGV	70 μmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
propan-2-ol; isopropyl alcohol; isopropanol (	67-63-0)
United Kingdom - Occupational Exposure Limits	
Local name	Propan-2-ol
WEL TWA (OEL TWA)	999 mg/m³
	400 ppm
WEL STEL (OEL STEL)	1250 mg/m³
	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

## **DNEL and PNEC**

2112 4114 1 1 2 2		
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	773 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	2035 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	699 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	608 mg/m³	
Long-term - systemic effects, dermal	699 mg/kg bodyweight/day	
Ethanol (64-17-5)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	1900 mg/m³	
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	950 mg/m³	
DNEL/DMEL (General population)		
Acute - local effects, inhalation 950 mg/m³		



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Ethanol (64-17-5)		
Long-term - systemic effects,oral	87 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	114 mg/m³	
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 (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	
butanone; ethyl methyl ketone (78-93-3)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	1161 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	600 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	31 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	106 mg/m³	
Long-term - systemic effects, dermal	412 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	55.8 mg/l	
PNEC aqua (marine water)	55.8 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	284.7 mg/kg dwt	
PNEC sediment (marine water)	284.7 mg/kg dwt	
PNEC (Soil)		
PNEC soil	22.5 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	709 mg/l	
propan-2-ol; isopropyl alcohol; isopropa	nol (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	
	'	



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propan-2-ol; isopropyl	propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
PNEC aqua (marine water)		140.9 mg/l	
PNEC aqua (intermittent, fre	eshwater)	140.9 mg/l	
PNEC (Sediment)			
PNEC sediment (freshwater	)	552 mg/kg dwt	
PNEC sediment (marine war	ter)	552 mg/kg dwt	
PNEC (Soil)	PNEC (Soil)		
PNEC soil		28 mg/kg dwt	
PNEC (Oral)	PNEC (Oral)		
PNEC oral (secondary poiso	oning)	160 kg/kg food	
PNEC (STP)	PNEC (STP)		
PNEC sewage treatment pla	ant	2251 mg/l	

#### 8.2. Exposure controls

#### **Appropriate engineering controls**

## Appropriate engineering controls:

Provide local exhaust or general room ventilation. Apply technical measures to comply with the occupational exposure limits.

#### Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Wear recommended personal protective equipment.

#### Eye and face protection

## Eye protection:

Not required for normal conditions of use. Use splash goggles when eye contact due to splashing is possible

#### **Skin protection**

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Wear suitable gloves tested to EN374

## **Respiratory protection**

#### Respiratory protection:

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

## **Environmental exposure controls**

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke in areas where product is used. Always wash hands after handling the product. Wash contaminated clothing before reuse.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Colourless.
Odour
Odour threshold : Not available
Melting point : Not applicable
Freezing point : Not available
Boiling point : Not available



: Not available

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Flammability : Not applicable
Lower explosion limit : Not available
Upper explosion limit : Not available
Flash point : 8 °C
Auto-ignition temperature : Not available

pH : substance/mixture is non-polar/aprotic

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 : 0.75 g/cm³ @ 20 °C (± 1.5%)

Relative density : Not available Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

#### 9.2. Other information

Decomposition temperature

#### Other safety characteristics

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

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Highly flammable liquid and vapour.

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Direct sunlight. High temperature. 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

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **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)

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	
LD50 oral rat > 5820 mg/kg OECD 401	
LD50 dermal rabbit	> 2920 mg/kg OECD 402
LC50 Inhalation - Rat (Vapours)	> 23.3 mg/l/4h OECD 403



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Ethanol (6/4-17-5)

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Ethanol (64-17-5)			
LD50 oral rat		14740 mg/kg	
LD50 dermal rabbit		> 15800 mg/kg	
LC50 Inhalation - Rat (Vapours)		124.7 mg/l/4h	
butanone; ethyl methyl keto	one (78-93-3)		
LD50 oral rat		3300 mg/kg	
LD50 dermal rabbit		5000 mg/kg	
LC50 Inhalation - Rat		34.5 mg/l	
LC50 Inhalation - Rat (Dust/Mist)		40 mg/l/4h	
propan-2-ol; isopropyl alcol	hol; isopropanol (6	77-63-0)	
LD50 oral rat		> 2000 mg/kg	
LD50 dermal rabbit		> 2000 mg/kg	
LC50 Inhalation - Rat [ppm]		> 10000 ppm OECD 403	
Ascorbic acid (50-81-7)			
LD50 oral rat		11900 mg/kg (Rattus norvegicus)	
LD50 oral		3367 mg/kg mouse	
Skin corrosion/irritation	:	Not classified (Based on available data, the classification criteria are not met)	
Serious eye damage/irritation	:	Not classified (Based on available data, the classification criteria are not met)	
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)	
Reproductive toxicity	:	Not classified (Based on available data, the classification criteria are not met)	
STOT-single exposure	:	May cause drowsiness or dizziness.	
Hydrocarbons, C7-C9, n-alk	anes, isoalkanes,	cyclics	
STOT-single exposure		May cause drowsiness or dizziness.	
cyclohexane (110-82-7)			
STOT-single exposure		May cause drowsiness or dizziness.	
butanone; ethyl methyl ketone (78-93-3)			
STOT-single exposure		May cause drowsiness or dizziness.	
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)	
Aspiration hazard	:	May be fatal if swallowed and enters airways.	

## 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 %



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## **SECTION 12: Ecological information**

## 12.1. Toxicity

Hazardous to the aquatic environment, short-term

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

Hazardous to the aquatic environment, long-term

: Toxic to aquatic life with long lasting effects.

(chronic)

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		
LC50 - Fish [1]	> 13.4 mg/l	
EC50 - Crustacea [1]	3 mg/l	
EC50 72h - Algae [1]	10 – 30 mg/l	
LOEC (chronic)	0.32 mg/l	
NOEC (acute)	0.1 – 1 mg/l	
NOEC (chronic)	0.17 mg/l	
NOEC chronic algae	10 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	
butanone; ethyl methyl ketone (78-93-3)		
LC50 - Fish [1]	> 3000 mg/l	
EC50 - Crustacea [1]	1382 mg/l	

## 12.2. Persistence and degradability

Hraniclean 11		
Persistence and degradability No data available.		
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		
Persistence and degradability Rapidly degradable		
Biodegradation	98 % 28d	

## 12.3. Bioaccumulative potential

Hraniclean 11		
Bioaccumulative potential No data available.		
Ethanol (64-17-5)		
Partition coefficient n-octanol/water (Log Pow)	-0.35	

## 12.4. Mobility in soil

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Ecology - soil	No data available.

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#### 12.5. Results of PBT and vPvB assessment

#### **Hraniclean 11**

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

Additional information

: Avoid release to the environment.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional waste regulation

Waste treatment methods

Sewage disposal recommendations

Product/Packaging disposal recommendations

Additional information

Ecological waste information

**HP Code** 

- : Disposal must be done according to official regulations.
- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Do not dispose of waste into sewer. Do not allow into drains or water courses.
- : Empty containers can be used in energy incinerator or stored in a landfill in accordance with the relevant legislation.
- : Flammable vapours may accumulate in the container.
- Avoid release to the environment.
- : 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.

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 1993	UN 1993	UN 1993	UN 1993	UN 1993		
14.2. UN proper shippin	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.		



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Revision date: 5/31/2024 Supersedes version of: 6/18/2023

Issue date: 3/24/2018 Version: 2.1 **ADR IMDG IATA RID ADN Transport document description UN 1993 FLAMMABLE UN 1993 FLAMMABLE** UN 1993 Flammable liquid, UN 1993 FLAMMABLE **UN 1993 FLAMMABLE** LIQUID, N.O.S. LIQUID, N.O.S. n.o.s. (Hydrocarbons, C7-LIQUID, N.O.S. LIQUID, N.O.S. C9, n-alkanes, isoalkanes, (Hydrocarbons, C7-C9, n-(Hydrocarbons, C7-C9, n-(Hydrocarbons, C7-C9, n-(Hydrocarbons, C7-C9, nalkanes, isoalkanes, cyclics cyclics; Ethanol), 3, II, alkanes, isoalkanes, cyclics alkanes, isoalkanes, cyclics alkanes, isoalkanes, cyclics ; Ethanol), 3, II, MARINE **ENVIRONMENTALLY** ; Ethanol), 3, II, (D/E), ; Ethanol), 3, II, ; Ethanol), 3, II, **ENVIRONMENTALLY** POLLUTANT/ENVIRONME **HAZARDOUS ENVIRONMENTALLY ENVIRONMENTALLY HAZARDOUS NTALLY HAZARDOUS HAZARDOUS HAZARDOUS** 14.3. Transport hazard class(es) 3 14.4. Packing group Ш Ш Ш 14.5. Environmental hazards Dangerous for the environment: Yes environment: Yes environment: Yes environment: Yes environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-E EmS-No. (Spillage): S-E No supplementary information available

## 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : F1

Special provisions (ADR) : 274, 601, 640D

Limited quantities (ADR) : 11 Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02, R001

Mixed packing provisions (ADR) : MP19 Portable tank and bulk container instructions (ADR) : T7

Portable tank and bulk container special provisions : TP1, TP8, TP28

(ADR)

Tank code (ADR) : LGBF : FL Vehicle for tank carriage : 2 Transport category (ADR) : S2, S20 Special provisions for carriage - Operation (ADR) Hazard identification number (Kemler No.) 33

: Orange plates :

33 1993

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

#### Transport by sea

Special provisions (IMDG) : 274 Limited quantities (IMDG) : 1L Excepted quantities (IMDG) : E2 : P001 Packing instructions (IMDG) IBC packing instructions (IMDG) : IBC02 : T7 Tank instructions (IMDG)



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Tank special provisions (IMDG) : TP1, TP28, TP8

Stowage category (IMDG) : B

#### Air transport

PCA Excepted quantities (IATA) : F2 PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 353 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 364 CAO max net quantity (IATA) : 60L Special provisions (IATA) : A3 ERG code (IATA) : 3H

#### Inland waterway transport

Classification code (ADN) : F1

Special provisions (ADN) : 274, 601, 640D

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

#### Rail transport

Classification code (RID) : F1

Special provisions (RID) : 274, 601, 640D

Limited quantities (RID) : 1L Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T7

Portable tank and bulk container special provisions : TP1, TP8, TP28

(RID)

Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 2
Colis express (express parcels) (RID) : CE7
Hazard identification number (RID) : 33

### 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 (RE	EU restriction list (REACH Annex XVII)		
Reference code Applicable on			
3(a)	Hraniclean 11; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics; Ethanol; cyclohexane; butanone; ethyl methyl ketone; propan-2-ol; isopropyl alcohol; isopropanol		
3(b)	Hraniclean 11; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics; cyclohexane; butanone; ethyl methyl ketone; propan-2-ol; isopropyl alcohol; isopropanol		
3(c)	Hraniclean 11; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics; cyclohexane		
40. Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics; Ethanol; cyclohexane; butanone; ethyl methyl ketone; propa 2-ol; isopropyl alcohol; isopropanol			

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EU restriction list (REACH Annex XVII)		
Reference code Applicable on		
57.	cyclohexane	

#### **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 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)

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
Methylethylketone	Butanone	78-93-3	2914 12 00	Category 3		Annex I

#### **National regulations**

## **United Kingdom**

**British National Regulations** 

: Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives, in the valid wording.

Regulation (EC) No 1013/2006 of the European Parliament and of the Council on shipments

of waste, in the valid wording. UK Waste Regulations.

UK REACH. GB CLP.

#### 15.2. Chemical safety assessment

No additional information available

## **SECTION 16: Other information**

Indication of changes		
Section Changed item Comments		
	Supersedes	Modified
	Revision date	Modified
8.2	Respiratory protection	Modified

## **Hraniclean 11**

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Revision date: 5/31/2024 Supersedes version of: 6/18/2023

ssue date: 3/24/2018	Revision date: 5/31/2024	Supersedes version of: 6/18/2023	Version: 2.1
Indication of chang	ges		
Section	Changed item	Comments	
9.1	рН	Added	
9.1	Density	Added	
9.1	Flash point	Modified	
9.2	Other properties	Added	
9.2	VOC content	Added	
12.1	Ecology - general	Removed	
12.2	Persistence and degradability	Modified	
15.1	VOC content	Added	

Abbreviations and acr	Abbreviations and acronyms:			
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways			
IMDG	International Maritime Dangerous Goods			
IATA	International Air Transport Association			
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail			
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006			
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008			
SDS	Safety Data Sheet			
ATE	Acute Toxicity Estimate			
LC50	Median lethal concentration			
LD50	Median lethal dose			
EC50	Median effective concentration			
PBT	Persistent Bioaccumulative Toxic			
vPvB	Very Persistent and Very Bioaccumulative			
	Volatile organic compounds (VOC) :			

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

Full text of H- and E	Full text of H- and EUH-statements:		
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 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2		
Asp. Tox. 1	Aspiration hazard, Category 1		
EUH066	Repeated exposure may cause skin dryness or cracking.		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 2	Flammable liquids, Category 2		
H225	Highly flammable liquid and vapour.		



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Revision date: 5/31/2024 Supersedes version of: 6/18/2023

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13340 date. 5/24/2010	Nevision date. 9/9 1/2024 Ouperscaes version of the 10/2020 vers	131011. 2.1	
Full text of H- and EUH-statements:			
H304	May be fatal if swallowed and enters airways.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H336	May cause drowsiness or dizziness.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
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. 2 H225 Expert judgement			
STOT SE 3	H336 Calculation method		
Asp. Tox. 1	H304 Expert judgement		
Aquatic Chronic 2	H411	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.