

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

Revision date: 9/4/2025

Issue date: 5/24/2017 Revision date: 9/4/2025 Supersedes version of: 1/3/2024 Version: 2.3

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

## 1.1. Product identifier

Product form : Mixture
Trade name : Hraniclean 04

UFI : 51S2-Y045-7009-M0ES

#### 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 : Cleaner of hardened and uncured PUR adhesives in the wood industry

Function or use category : Other products for chemical or technical processes

**Uses advised against** 

Restrictions on use : Not to be used for any purpose other than the one the product was designed for

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

 Distributor
 Supplier

 Hranipex Czech Republic k.s.
 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

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

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

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302 Skin corrosion/irritation, Category 2 H315

## Safety Data Sheet

# **Hranipex**

Version: 2.3

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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

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

#### 2.2. Label elements

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

Hazard pictograms (CLP)

GHS07

Signal word (CLP) : Warning

Contains : 1-butylpyrrolidin-2-one
Hazard statements (CLP) : H302 - Harmful if swallowed.
H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P262 - Do not get in eyes, on skin, or on clothing.

P280 - Wear protective gloves.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

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.

#### 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]
1-butylpyrrolidin-2-one	CAS-No.: 3470-98-2 EC-No.: 222-437-8	> 50	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Glycerol	CAS-No.: 56-81-5 EC-No.: 200-289-5	< 27	Not classified
Propane-1,2-diol	CAS-No.: 57-55-6 EC-No.: 200-338-0	< 16	Not classified

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



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#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Take care of your own safety. If you experience any health problems or if you are in doubt, inform your doctor and provide him / her with information from this Safety Data Sheet. Life-threatening conditions require resuscitation. In case of unconsciousness place the affected

person in a stabilized position on the side, with a slightly bowed head, and take care of the passage of the airways. Heart arrest - Immediately perform an indirect heart massage.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Wash skin with plenty of water and soap. 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. Consult an eye

specialist

First-aid measures after ingestion : Keep the affected person at rest. Do not induce vomiting. Seek medical advice immediately

and show this container or label.

Self protection of the first-aider : First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects after skin contact : Irritation.
Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : Ingestion may cause nausea and vomiting.

#### 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 : Alcohol resistant foam. Dry powder. Carbon dioxide. Water spray. Water fog.

Unsuitable extinguishing media : Strong water jet.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.

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.

#### 5.3. Advice for firefighters

Firefighting instructions : In case of fire: stop leak if safe to do so. 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 : Prevent unauthorised access. Wear personal protective equipment. Avoid contact with skin

and eyes

For non-emergency personnel

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

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For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Protective goggles or face shield. Total impervious protective suits,

information refer to section 8: "Exposure controls/personal protection".

gloves, and boots must be worn to prevent any contact with the product. For further

#### 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. Notify authorities if product enters sewers or public waters. Wash off with plenty 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

Precautions for safe handling : Ensure good ventilation of the work station. Keep container tight closed. Avoid contact with

skin and eyes. Wear personal protective equipment. Tampons or rags soaked with the

mixture should be stored in tightly closed metal containers.

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

product. Tampons or rags soaked with the mixture should be stored in tightly closed metal

containers. Wash contaminated clothing before reuse.

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

Storage conditions : Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep

cool. Protect from sunlight. Keep in properly labelled containers.

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

Incompatible materials : PET, PVC packaging.

Storage temperature : 5-25 °C

Special rules on packaging : high density polyethylene (HDPE).

## 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

Glycerol (56-81-5)		
United Kingdom - Occupational Exposure Limits		
Local name	Glycerol	
VEL TWA (OEL TWA) 10 mg/m³ mist		
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE		
Propane-1,2-diol (57-55-6)		
United Kingdom - Occupational Exposure Limits		
ocal name Propane-1,2-diol		



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Propane-1,2-diol (57-55-	6)		
WEL TWA (OEL TWA)	10 mg/m³ partic 474 mg/m³ total	ulates vapour and particulates	
	150 ppm total va	pour and particulates	
Regulatory reference	EH40/2005 (Fou	rth edition, 2020). HSE	

#### **DNEL and PNEC**

1-butylpyrrolidin-2-one (3470-98-2)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal 10 mg/kg bodyweight/day		
ong-term - systemic effects, inhalation 24.1 mg/m³		
PNEC (Sediment)		
PNEC sediment (freshwater) 29.6 mg/kg dwt		
PNEC (STP)		
PNEC sewage treatment plant 30.6 mg/l		

## 8.2. Exposure controls

#### Appropriate engineering controls

## Appropriate engineering controls:

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

#### Personal protection equipment

## Personal protective equipment:

Wear recommended personal protective equipment.

#### Eye and face protection

### Eye protection:

Chemical goggles or face shield. (EN ISO 16321-1). Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure

#### **Skin protection**

#### Skin and body protection:

Wear suitable protective clothing. Protective shoes. Protective apron

## Hand protection:

Standard EN 374 - Protective gloves against chemicals. Follow the glove manufacturer's specific recommendations when selecting the appropriate thickness, material, and permeability.

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Wear gloves according to EN374 resistant to the solvent(s) in use.	Ethylene-Propylene rubber (EPDM)	3 (> 60 minutes)	> 0.3 mm	x	EN ISO 374

## **Respiratory protection**

## Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory protection			
Device	Filter type	Condition	Standard
Mask	Type A - High-boiling (>65 °C) organic compounds	In case of insufficient ventilation, accident, fire, etc	x



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#### **Environmental exposure controls**

#### **Environmental exposure controls:**

Avoid release to the environment.

#### Other information:

Immediately remove contaminated clothing or footwear. Wash contaminated clothing before reuse. Do not eat, drink or smoke in areas where product is used. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety procedures.

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

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Colourless.
Appearance : Transparent.
Odour : characteristic.
Odour threshold : Not available
Melting point : Not applicable

Freezing point : <-75 °C (EINECS 222-437-8)

Boiling point : 241 °C

Flammability : Non flammable.

It does not have oxidising properties : No chemical groups associated with oxidising properties present in the molecule.

Not applicable

Lower explosion limit: 0.9 vol %Upper explosion limit: 8.7 vol %Flash point: 108 °CAuto-ignition temperature: 210 °CDecomposition temperature: Not available

pH : substance/mixture is non-polar/aprotic

Viscosity, kinematic : 4.479 mm<sup>2</sup>/s Viscosity, dynamic : 4.3 mPa·s Soluble in water Solubility : Not available Partition coefficient n-octanol/water (Log Kow) Partition coefficient n-octanol/water (Log Pow) : 1.256 : 8 Pa @ 20 °C Vapour pressure Vapour pressure at 50°C : Not available Density · 0.96 a/cm<sup>3</sup> Relative density : Not available Relative vapour density at 20°C Not available

#### 9.2. Other information

Particle characteristics

## Other safety characteristics

Relative evaporation rate (butylacetate=1) : 96 (DIN 53170)
VOC content : 0.99 kg/kg
Refractive index : 1.467
Total organic carbon (TOC) : 0,63 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.



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## 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

Strong acids, strong bases and strong oxidants.

#### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. On burning: release of carbon monoxide - carbon dioxide.

## **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Harmful if swallowed.

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)

Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Glycerol (56-81-5)	
LD50 oral rat	12600 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
1-butylpyrrolidin-2-one (3470-98-2)	
LD50 oral rat	300 – 2000 mg/kg Rattus norvegicus
LD50 dermal rat	> 2000 mg/kg Rattus norvegicus
LC50 Inhalation - Rat	> 5.1 mg/l Rattus norvegicus
Skin corrosion/irritation	: Causes skin irritation.
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)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Hraniclean 04	
Viscosity, kinematic	4.479 mm²/s

# 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)

 $\label{thm:long-term} \mbox{Hazardous to the aquatic environment, long-term}$ 

(chronic)

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

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Glycerol (56-81-5)			
LC50 - Fish [1]	> 5000 mg/l Ca	rassius auratus	
EC50 - Other aquatic organisms [	> 10000 mg/l n	icroorganisms	
EC50 72h - Algae [1]	> 10000 mg/l S	cenedesmus subspicatus	
1-butylpyrrolidin-2-one (3470	)-98-2)		
LC50 - Fish [1]	> 100 mg/l Ond	orhynchus mykiss	
EC50 - Crustacea [1]	100 mg/l Daph	nia magna	
EC50 72h - Algae [1]	> 160 mg/l Pse	udokirchneriella subcapitata	

## 12.2. Persistence and degradability

Hraniclean 04	
Persistence and degradability	Product is biodegradable. When diluted multiple times with water, hydrolysis occurs.

## 12.3. Bioaccumulative potential

Hraniclean 04		
Partition coefficient n-octanol/water (Log Pow) 1.256		
Bioaccumulative potential	Bioaccumulation unlikely. Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.	

## 12.4. Mobility in soil

Hraniclean 04		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	43.2	
Ecology - soil	Low potential for adsorption in soil.	

## 12.5. Results of PBT and vPvB assessment

#### **Hraniclean 04**

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.

Sewage disposal recommendations : Do not dispose of waste into sewer. Do not remove as household garbage.

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Product/Packaging disposal recommendations

: Empty containers can be used in energy incinerator or stored in a landfill in accordance with the relevant legislation. May be reused following decontamination.

HP Code : HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

irritation or damage to the eye.

# **SECTION 14: Transport information**

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard	class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	zards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

## 14.6. Special precautions for user

## Overland transport

Not applicable

#### Transport by sea

Not applicable

## Air transport

Not applicable

#### **Inland waterway transport**

Not applicable

#### Rail transport

Not applicable

# 14.7. Maritime transport in bulk according to IMO instruments

Not applicable



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## **SECTION 15: Regulatory information**

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

#### **EU-Regulations**

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#### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Hraniclean 04 ; 1- butylpyrrolidin-2-one	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

#### **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 : 0.99 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)

#### **National regulations**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals

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 : 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 chemical safety assessment has been carried out

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#### Issue date: 5/24/2017 Version: 2.3 **SECTION 16: Other information**

Indication of changes		
Section	Changed item	Comments
1.2	Restrictions on use	Added
1.2	Function or use category	Added
4	Self protection of the first-aider	Added
4.1	First-aid measures general	Modified
5.3	Other information	Added
7.1	Precautions for safe handling	Modified
7.2	Special rules on packaging	Added
8.2	Hand protection	Modified
8.2	Eye protection	Modified
8.2	Appropriate engineering controls	Modified
8.2	Other information	Modified
9	It does not have oxidising properties	Modified
9	Limiting impact energy	Removed
10.6	Hazardous decomposition products	Modified
12.2	Persistence and degradability	Modified
12.3	Bioaccumulative potential	Modified
12.4	Ecology - soil	Modified
12.7	Other adverse effects	Added

Abbreviations and acronyms:		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
ATE	Acute Toxicity Estimate	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
DPD	Dangerous Preparations Directive 1999/45/EC	
DSD	Dangerous Substances Directive 67/548/EEC	
EC50	Median effective concentration	
LD50	Median lethal dose	
LC50	Median lethal 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	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	

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Abbreviations and acronyms:			
LOAEL	Lowest Observed Adverse Effect Level		
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		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
EC-No.	European Community number		
EN	European Standard		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
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		
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 : Provide SDS to employees. Follow general rules on handling chemical substances and/or

mixtures.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Acute Tox. 4 (Oral)	H302	Calculation method
Skin Irrit. 2	H315	Calculation method
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.

Issue date: 5/24/2017

# **Hranipex**

# **Hraniclean 04**

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Revision date: 9/4/2025 Supersedes version of: 1/3/2024

Version: 2.3