Issue date: 5/24/2018



Version: 3.0

## **Hraniclean 104**

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Revision date: 9/23/2024 Supersedes version of: 3/30/2022

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

#### 1.1. Product identifier

Product form : Mixture
Product name : Hraniclean 104
UFI : SAT2-J0G3-T00Q-J45R

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

#### Relevant identified uses

Main use category : For professional users only Use of the substance/mixture : Separation liquid

·

### 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 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 3 H226

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

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour.



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#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

Signal word (CLP) : Warning

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

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

No smoking.

P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting equipment.

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

extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

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]
Ethanol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610- 43	< 40	Flam. Liq. 2, H225

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 : If you feel unwell, seek medical advice (show the label where possible). In case of loss of

consciousness, place the victim in the recovery position.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest. If

you feel unwell, seek medical advice.

First-aid measures after skin contact : Take off contaminated clothing. Rinse and then wash skin thoroughly with water and soap.

If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

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

No additional information available



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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water fog. Dry powder. Alcohol resistant foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use water jet.

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

Fire hazard : Flammable liquid and vapour.

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

mixture with air.

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 : Keep container tightly closed and away from heat, sparks and flame.

Firefighting instructions : Eliminate all ignition sources if safe to do so. Use water spray or fog for cooling exposed

containers.

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

breathing apparatus. Complete protective clothing. Chemical resistant safety shoes.

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

### For non-emergency personnel

Protective equipment : Wear proper protective equipment.

Emergency procedures : Ventilate spillage area. Prevent the build-up of electrostatic charge. No flames, no sparks.

Eliminate all sources of ignition.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

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

## **6.2. Environmental precautions**

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

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

Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Collect all waste in

suitable and labelled containers and dispose according to local legislation. Clean

contaminated surfaces with an excess of water. Use non-sparking tools.

### 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 away from heat, hot surfaces, sparks,

open flames and other ignition sources. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid

contact with skin and eyes. Avoid breathing vapours.

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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 : Ground/bond container and receiving equipment.

Storage conditions : Store in dry, cool, well-ventilated area. Keep the container tightly closed. Keep away from

ignition sources. Keep away from heat and direct sunlight.

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

Storage temperature :  $0-25\,^{\circ}\text{C}$ 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

#### 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/m³		
	1000 ppm		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		

## 8.2. Exposure controls

#### **Appropriate engineering controls**

#### Appropriate engineering controls:

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

#### Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Wear proper protective equipment.

#### Eye and face protection

#### Eye protection:

Not required for normal conditions of use

## **Skin protection**

### Skin and body protection:

Wear suitable working clothes

#### Hand protection:

In case of repeated or prolonged contact wear gloves

### Respiratory protection

## Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Half mask with filter against organic vapors. Self-contained breathing apparatus if exposure limits are exceeded or in poorly ventilated areas.

#### **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. Wash hands and other exposed areas with soap and water before leaving work.



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

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

Physical state : Liquid Colour Colourless. Odour : Solvent odour. Odour threshold : Not available Melting point : Not available Freezing point : <-10 °C Boiling point : 80 - 100 °C Flammability : Not applicable Explosive properties : None.

It does not have oxidising properties : Non oxidizing. Lower explosion limit : 3.3 vol %

Upper explosion limit : 19 vol % (CAS 64-17-5)

Flash point : 25 °C

Auto-ignition temperature : 363 °C (CAS 64-17-5)

Decomposition temperature : Not available : 5-8 Viscosity, kinematic : Not available Solubility : Miscible with water. Partition coefficient n-octanol/water (Log Kow) : -0.35 (CAS 64-17-5) : 59 mbar (CAS 64-17-5) Vapour pressure

Vapour pressure at 50°C : Not available

Density : 0.945 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

## Other safety characteristics

VOC content : 0.41 kg/kg Total organic carbon (TOC) : 0,21 kg/kg

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

## 10.1. Reactivity

Flammable liquid and vapour.

## 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

## 10.5. Incompatible materials

Strong acids, strong bases and oxidation agents.

## 10.6. Hazardous decomposition products

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



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## **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)

Ethanol (64-17-5)		
LD50 oral rat	7000 mg/kg	
LC50 Inhalation - Rat	124.7 mg/l	
LC50 Inhalation - Rat (Dust/Mist)	116.9 mg/l/4h	
LC50 Inhalation - Rat (Vapours)	133.8 mg/l/4h	
Older and manager of Providence	Matadaga Wad (Dagadaga aya Sabba data dagadaga Wadaga aya ayitada aya asta ay	

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met) pH: 5 – 8

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met) pH: 5 – 8

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)

Ethanol (64-17-5)	
NOAEL	> 16000 ppm
NOAEL	5200 mg/kg rat

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

Ethanol (64-17-5)		
LOAEC (inhalation, 30 min)	2.6 mg/l central nervous system	
LOAEC (inhalation)	9.4 mg/l lungs	

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)

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

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

Ethanol (64-17-5)		
LC50 - Fish [1]	3.9 g/l	
EC50 - Crustacea [1]	> 10000 mg/l	
EC50 - Crustacea [2]	9248 mg/l	



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Ethanol (64-17-5)				
EC50 72h - Algae [1]		8800 mg/l		
NOEC (chronic)		1000 mg/l Experim	ental data	
NOEC chronic fish		250 mg/l (Oncorhy	nchus mykiss)	

#### 12.2. Persistence and degradability

Hraniclean 104	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

Hraniclean 104	
Bioaccumulative potential	Not established.

## 12.4. Mobility in soil

Hraniclean 104	
Ecology - soil	Not established.

### 12.5. Results of PBT and vPvB assessment

#### **Hraniclean 104**

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 : No other effects known

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations. : Dispose of contents/container in accordance with licensed collector's sorting instructions. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer. Product/Packaging disposal recommendations

: 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 waste information : Avoid release to the environment.

European List of Waste (LoW, EC 2000/532) : 07 01 04\* - other organic solvents, washing liquids and mother liquors

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: 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.

## **SECTION 14: Transport information**

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			
UN 1170	UN 1170	UN 1170	UN 1170	UN 1170
14.2. UN proper shippin	g name			
ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL (ETHYL ALCOHOL)	Ethanol	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Transport document descr	iption			
UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III, (D/E)	UN 1170 ETHANOL (ETHYL ALCOHOL), 3, III	UN 1170 Ethanol, 3, III	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3 III
14.3. Transport hazard o	class(es)			
3	3	3	3	3
3	3		3	3
14.4. Packing group				
III	III	III	III	III
14.5. Environmental haz	ards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-E EmS-No. (Spillage): S-D	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

## 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : F1
Special provisions (ADR) : 144, 601
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001



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Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T2
Portable tank and bulk container special provisions : TP1

(ADR)

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

30 1170

Tunnel restriction code (ADR) : D/E EAC code : •2YE

Transport by sea

Special provisions (IMDG) : 144, 223
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T2

Tank instructions (IMDG) : T2
Tank special provisions (IMDG) : TP1
Stowage category (IMDG) : A

Properties and observations (IMDG) : Colourless, volatile liquids. Pure ETHANOL: flashpoint 13°C c.c. Explosive limits: 3.3% to

19%. Miscible 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, A58, A180

ERG code (IATA) : 3L

**Inland waterway transport** 

Classification code (ADN) : F1 Special provisions (ADN) : 144, 601 Limited quantities (ADN) 5 L Excepted quantities (ADN) E1 Carriage permitted (ADN) Т Equipment required (ADN) : PP, EX, A : VE01 Ventilation (ADN) Number of blue cones/lights (ADN) 0

Rail transport

Classification code (RID) : F1
Special provisions (RID) : 144, 601
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T2
Portable tank and bulk container special provisions : TP1

(RID)

Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE4



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Hazard identification number (RID) : 30

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## **SECTION 15: Regulatory information**

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

#### **EU-Regulations**

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

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	Hraniclean 104; Ethanol
40.	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)

## 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 : 0.41 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)

#### **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.

UK Waste Regulations.

UK REACH. GB CLP.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out



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## **SECTION 16: Other information**

Indication of changes			
Section	Changed item	Comments	
	Supersedes	Modified	
	Revision date	Modified	
2.2	Precautionary statements (CLP)	Modified	
6.3	Other information	Removed	
8.2	Respiratory protection	Modified	
9	It does not have oxidising properties	Modified	
9	Partition coefficient n-octanol/water (Log Kow)	Added	
9	Other properties	Added	
9	Density	Added	
9	Flash point	Modified	
15.1	British National Regulations	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	
EC50	Median effective concentration	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
PBT	Persistent Bioaccumulative Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	

Data sources : ECHA Guidance on the compilation of safety data sheets

 $\label{lem:charge} \mbox{ECHA C\&L Inventory database. Supplier's safety documents}.$ 

Training advice : Provide SDS to employees. Follow general rules on handling chemical substances and/or

mixtures.

Full text of H- and EUH-statements:	
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.

## Safety Data Sheet



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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

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.