

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

1.1. Product identifier

Product form	: Substance
Trade name	: Propionic acid 99% Extra Pure
Chemical name	: propionic acid ... %
IUPAC name	: propionic acid
EC Index-No.	: 607-089-00-0
EC-No.	: 201-176-3
CAS-No.	: 79-09-4
Product code	: PRAC-00T
Formula	: CH ₃ .CH ₂ .COOH

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

Relevant identified uses

Main use category	: Laboratory use
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1.3. Details of the supplier of the safety data sheet

Labbox Labware S.L.
Migjorn, 1
08338 Premia de Dalt, Barcelona
España
T +34 937 07 79 70, F +34 937 909 532
info@labbox.com, www.labbox.com

1.4. Emergency telephone number

Emergency number	: +34 937 077 970 (For technical information_Office Hours) In case of medical emergency phone 112 or to your local emergency number. 24 hours a day, 7 days a week
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Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	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]

Skin corrosion/irritation, Category 1, Sub-Category 1B H314

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

Specific concentration limits (%):

(10 ≤ C < 100)

(10 ≤ C < 25)

(10 ≤ C < 25)

(25 ≤ C < 100)

STOT SE 3; H335

Eye Irrit. 2; H319

Skin Irrit. 2; H315

Skin Corr. 1B; H314

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)

:



GHS05

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP)

: P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

2.3. Other hazards

PBT: not relevant – no registration required

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%
Propionic acid	CAS-No.: 79-09-4 EC-No.: 201-176-3 EC Index-No.: 607-089-00-0	100

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Get medical advice/attention if you feel unwell.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact

: Wash skin with plenty of water. Take off immediately all contaminated clothing. 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. 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

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

Treat symptomatically.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : ABC-powder.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : fume. Corrosive vapours.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Use personal protective equipment as required.
Emergency procedures : Ventilate area. Stop leak if safe to do so.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Collect spillage. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Keep containers closed.
Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact during pregnancy/while nursing.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.
Maximum storage period : 6 months
Storage temperature : 5 – 30 °C
Storage area : Store away from heat. Store in a well-ventilated place.
Special rules on packaging : Store in a closed container. Keep only in original container.

7.3. Specific end use(s)

Laboratory chemicals.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Propionic acid 99% Extra Pure (79-09-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Propionic acid
IOEL TWA	31 mg/m ³
	10 ppm
IOEL STEL	62 mg/m ³
	20 ppm
France - Occupational Exposure Limits	
Local name	Acide propionique
VME (OEL TWA)	31 mg/m ³
	10 ppm
VLE (OEL C/STEL)	62 mg/m ³
	20 ppm
Remark	Valeurs réglementaires indicatives
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Propionsäure
AGW (OEL TWA)	31 mg/m ³
	10 ppm
Remark	EU,DFG,Y
Italy - Occupational Exposure Limits	
Local name	Acido propionico
OEL TWA	31 mg/m ³
	10 ppm
OEL STEL	62 mg/m ³
	20 ppm
Portugal - Occupational Exposure Limits	
Local name	Ácido propiónico
OEL TWA	10 ppm
Spain - Occupational Exposure Limits	
Local name	Ácido propiónico
VLA-ED (OEL TWA)	31 mg/m ³
	10 ppm
VLA-EC (OEL STEL)	62 mg/m ³
	20 ppm

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Propionic acid 99% Extra Pure (79-09-4)	
Remark	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país).
United Kingdom - Occupational Exposure Limits	
Local name	Propionic acid
WEL TWA (OEL TWA)	31 mg/m ³
	10 ppm
WEL STEL (OEL STEL)	46 mg/m ³
	15 ppm

DNEL and PNEC

Propionic acid 99% Extra Pure (79-09-4)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	62 mg/m ³
Acute - local effects, inhalation	62 mg/m ³
Long-term - systemic effects, dermal	132 mg/kg bodyweight/day
Long-term - local effects, dermal	260 µg/cm ²
Long-term - systemic effects, inhalation	31 mg/m ³
Long-term - local effects, inhalation	31 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0,5 mg/l
PNEC aqua (marine water)	0,05 mg/l
PNEC aqua (intermittent, freshwater)	5 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1,86 mg/kg dwt
PNEC sediment (marine water)	0,186 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,1258 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	5 mg/l

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. ISO 374-1.

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Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Face shield

Eye protection			
Type	Field of application	Characteristics	Standard
Category II			EN 166, EN 167, EN 168

Skin protection

Skin and body protection:

Wear suitable protective clothing

Skin and body protection	
Type	Standard
Protective clothing	EN 13034, EN 168, EN ISO 13982-1, EN ISO 6529, EN ISO 6530, EN 464

Hand protection:

protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Category III					EN ISO 374-1, EN 374-3, EN 420

Other skin protection

Materials for protective clothing:

Wear foot protection

Other skin protection Materials for protective clothing		
Condition	Material	Standard
		EN ISO 20345

Respiratory protection

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Not available
Molecular mass	: 74,1 g/mol

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Odour	: Not available
Odour threshold	: Not available
Melting point	: -20 °C
Freezing point	: Not available
Boiling point	: 142 °C
Flammability	: Not available
Lower explosion limit	: 2,9 vol %
Upper explosion limit	: 14,8 vol %
Flash point	: 51 °C
Auto-ignition temperature	: 475 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 1,12 mm²/s
Viscosity, dynamic	: 1,11 cP
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 383 Pa
Vapour pressure at 50°C	: 2,43 hPa
Density	: 993 kg/m³
Relative density	: 0,993
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Other safety characteristics

Heat of reaction	: 19190 J/g
VOC content	: 100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable in use and storage conditions as recommended in item 7.

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

No additional information available

10.5. Incompatible materials

Strong bases. Strong acids.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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Propionic acid 99% Extra Pure (79-09-4)	
LD50 oral rat	3455,1 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2978,9 - 4007,5
LD50 dermal rat	3235 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 20 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Assumed to cause serious eye damage
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

Propionic acid 99% Extra Pure (79-09-4)	
Viscosity, kinematic	1,12 mm²/s

11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: Not applicable
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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Propionic acid 99% Extra Pure (79-09-4)	
LC50 - Fish [1]	> 10000 mg/l Test organisms (species): Leuciscus idus
EC50 - Crustacea [1]	> 500 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 500 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

Propionic acid 99% Extra Pure (79-09-4)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

Propionic acid 99% Extra Pure (79-09-4)	
Surface tension	2,62 N/m 25° C

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12.5. Results of PBT and vPvB assessment

Propionic acid 99% Extra Pure (79-09-4)

PBT: not relevant – no registration required

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Not applicable.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Must follow special treatment according to local regulation.
European List of Waste (LoW, EC 2000/532)	: 20 01 14* - acids
HP Code	: HP8 - "Corrosive:" waste which on application can cause skin corrosion.

SECTION 14: Transport information

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

14.1. UN number or ID number

UN-No. (ADR)	: UN 3463
UN-No. (IMDG)	: UN 3463
UN-No. (IATA)	: UN 3463
UN-No. (ADN)	: UN 3463
UN-No. (RID)	: UN 3463

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: PROPIONIC ACID
Proper Shipping Name (IMDG)	: PROPIONIC ACID
Proper Shipping Name (IATA)	: Propionic acid
Proper Shipping Name (ADN)	: PROPIONIC ACID
Proper Shipping Name (RID)	: PROPIONIC ACID
Transport document description (ADR) (ADR)	: UN 3463 PROPIONIC ACID, 8 (3), II, (D/E)
Transport document description (IMDG)	: UN 3463 PROPIONIC ACID, 8 (3), II
Transport document description (IATA)	: UN 3463 Propionic acid, 8 (3), II
Transport document description (ADN)	: UN 3463 PROPIONIC ACID, 8 (3), II
Transport document description (RID)	: UN 3463 PROPIONIC ACID, 8 (3), II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 8 (3)
Danger labels (ADR)	: 8, 3



IMDG

Transport hazard class(es) (IMDG)	: 8 (3)
Danger labels (IMDG)	: 8, 3

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IATA

Transport hazard class(es) (IATA)

: 8 (3)

Danger labels (IATA)

: 8, 3



ADN

Transport hazard class(es) (ADN)

: 8 (3)

Danger labels (ADN)

: 8, 3



RID

Transport hazard class(es) (RID)

: 8 (3)

Danger labels (RID)

: 8, 3



14.4. Packing group

Packing group (ADR)

: II

Packing group (IMDG)

: II

Packing group (IATA)

: II

Packing group (ADN)

: II

Packing group (RID)

: II

14.5. Environmental hazards

Dangerous for the environment

: No

Marine pollutant

: No

EmS-No. (Fire)

: F-E

EmS-No. (Spillage)

: S-C

Other information

: No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR)

: CF1

Limited quantities (ADR)

: 1I

Excepted quantities (ADR)

: E2

Packing instructions (ADR)

: P001, IBC02

Mixed packing provisions (ADR)

: MP15

Portable tank and bulk container instructions (ADR)

: T7

Portable tank and bulk container special provisions (ADR)

: TP2

Tank code (ADR)

: L4BN

Vehicle for tank carriage

: FL

Transport category (ADR)

: 2

Special provisions for carriage - Operation (ADR)

: S2

Hazard identification number (Kemler No.)

: 83

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Orange plates

:



Tunnel restriction code (ADR)

: D/E

EAC code

: •2W

APP code

: A(fl)

Transport by sea

Limited quantities (IMDG)

: 1 L

Excepted quantities (IMDG)

: E2

Packing instructions (IMDG)

: P001

IBC packing instructions (IMDG)

: IBC02

Tank instructions (IMDG)

: T7

Tank special provisions (IMDG)

: TP2

Stowage category (IMDG)

: A

Segregation (IMDG)

: SGG1, SG36, SG49

Properties and observations (IMDG)

: Colourless flammable liquid with a pungent odour. Miscible with water. Corrosive to lead and most other metals. Burns skin. Vapours irritate mucous membranes. Pure PROPIONIC ACID: flashpoint 50°C c.c.

Air transport

PCA Excepted quantities (IATA)

: E2

PCA Limited quantities (IATA)

: Y840

PCA limited quantity max net quantity (IATA)

: 0.5L

PCA packing instructions (IATA)

: 851

PCA max net quantity (IATA)

: 1L

CAO packing instructions (IATA)

: 855

CAO max net quantity (IATA)

: 30L

ERG code (IATA)

: 8F

Inland waterway transport

Classification code (ADN)

: CF1

Limited quantities (ADN)

: 1 L

Excepted quantities (ADN)

: E2

Carriage permitted (ADN)

: T

Equipment required (ADN)

: PP, EP, EX, A

Ventilation (ADN)

: VE01

Number of blue cones/lights (ADN)

: 1

Rail transport

Classification code (RID)

: CF1

Limited quantities (RID)

: 1L

Excepted quantities (RID)

: E2

Packing instructions (RID)

: P001, IBC02

Mixed packing provisions (RID)

: MP15

Portable tank and bulk container instructions (RID)

: T7

Portable tank and bulk container special provisions (RID)

: TP2

Tank codes for RID tanks (RID)

: L4BN

Transport category (RID)

: 2

Colis express (express parcels) (RID)

: CE6

Hazard identification number (RID)

: 83

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

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3.	Propionic acid 99% Extra Pure
3(b)	Propionic acid 99% Extra Pure

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

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

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

VOC Directive (2004/42)

VOC content : 100 %

Explosives Precursors Regulation (EU 2019/1148)

Not listed on the Explosives Precursors list (EU)

Drug Precursors Regulation (EC 273/2004)

Not listed on the Drug Precursors list (EU)

National regulations

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 483).
VOC content : 100 %

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed
SZW-lijst van mutagene stoffen : The substance is not listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

Denmark

Class for fire hazard : Class II-1
Store unit : 5 liter
Classification remarks : R10 <H314>; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

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Poland

Polish National Regulations

: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)
Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines, and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (J.o.L. 2015, item 1368 as ammended)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Safety Data Sheet (SDS), EU

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.