

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Name : Calcium Hardness N°1 (20 ml, 50 tests)
Trade name : Calcium Hardness N°1 (20 ml, 50 tests)
Product code : POLR-CH1

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Reagent for water analysis

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

labbox labware s.l.
Migjorn, 1
P.O. Box Barcelona (SPAIN)
08338 Premia de Dalt – SPAIN
ES
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.

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

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

No additional information available

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H319 - Causes serious eye irritation.

Calcium Hardness N°1 (20 ml, 50 tests)

Safety Data Sheet

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

Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH 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 is 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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetic acid glacial substance with a Community workplace exposure limit	CAS-No.: 64-19-7 EC-No.: 200-580-7 EC Index-No.: 607-002-00-6	< 1,5	Flam. Liq. 3, H226 Skin Corr. 1A, H314

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Acetic acid glacial	CAS-No.: 64-19-7 EC-No.: 200-580-7 EC Index-No.: 607-002-00-6	(10 \leq C < 25) Eye Irrit. 2, H319 (10 \leq C < 25) Skin Irrit. 2, H315 (25 \leq C < 90) Skin Corr. 1B, H314 (90 \leq C < 100) Skin Corr. 1A, H314

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).
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Gently wash with plenty of soap and water. 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 if pain, blinking or redness persists.
First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.

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

Symptoms/effects after eye contact : redness, itching, tears.

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

Never give anything by mouth to an unconscious person.

Calcium Hardness N°1 (20 ml, 50 tests)

Safety Data Sheet

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 : Making extinguishing agents environment-friendly.
Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

No additional information available

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

6.1.1. For non-emergency personnel

- Emergency procedures : Do not get in eyes, on skin, or on clothing. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Collect spillage. Absorb remaining liquid with sand or inert absorbent and remove to safe place.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Avoid any direct contact with the product.
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.
Packaging materials : Keep only in the original container in a cool, well-ventilated place away from combustible materials.

7.3. Specific end use(s)

Laboratory chemicals. Reagent for water analysis.

Calcium Hardness N°1 (20 ml, 50 tests)

Safety Data Sheet

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Calcium Hardness N°1 (20 ml, 50 tests)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	25 mg/m ³
MAK (OEL TWA) [ppm]	10 ppm
MAK (OEL STEL)	50 mg/m ³
MAK (OEL STEL) [ppm]	20 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	38 mg/m ³
OEL STEL [ppm]	15 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	50 mg/m ³
OEL TWA [ppm]	25 ppm
OEL STEL	25 mg/m ³
OEL STEL [ppm]	10 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	25 mg/m ³
GVI (OEL TWA) [2]	10 ppm
KGVI (OEL STEL)	50 mg/m ³
KGVI (OEL STEL) [ppm]	20 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA	50 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	25 mg/m ³
OEL STEL [ppm]	10 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	25 mg/m ³
NPK-P (OEL Ceiling)	50 mg/m ³
Denmark - Occupational Exposure Limits	
OEL TWA [1]	25 mg/m ³
OEL TWA [2]	10 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	25 mg/m ³

Calcium Hardness N°1 (20 ml, 50 tests)

Safety Data Sheet

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

Calcium Hardness N°1 (20 ml, 50 tests)	
OEL STEL [ppm]	10 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	13 mg/m ³
HTP (OEL TWA) [2]	5 ppm
HTP (OEL STEL)	25 mg/m ³
HTP (OEL STEL) [ppm]	10 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	25 mg/m ³
VME (OEL TWA) [ppm]	10 ppm
VLE (OEL Ceiling/STEL)	50 mg/m ³
VLE (OEL Ceiling/STEL) [ppm]	20 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	25 mg/m ³
AGW (OEL TWA) [2]	10 ppm
Greece - Occupational Exposure Limits	
OEL TWA	15 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	37 mg/m ³
OEL STEL [ppm]	15 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	25 mg/m ³
CK (OEL STEL)	50 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	50 mg/m ³
OEL TWA [2]	20 ppm
OEL STEL	25 mg/m ³
OEL STEL [ppm]	10 ppm
Italy - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
OEL TWA [ppm]	25 ppm
OEL STEL	50 mg/m ³
OEL STEL [ppm]	20 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	50 mg/m ³
OEL STEL [ppm]	20 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	25 mg/m ³

Calcium Hardness N°1 (20 ml, 50 tests)

Safety Data Sheet

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

Calcium Hardness N°1 (20 ml, 50 tests)	
IPRV (OEL TWA) [ppm]	10 ppm
TPRV (OEL STEL)	50 mg/m ³
TPRV (OEL STEL) [ppm]	20 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	50 mg/m ³
OEL STEL [ppm]	20 ppm
Malta - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	50 mg/m ³
OEL STEL [ppm]	20 ppm
Netherlands - Occupational Exposure Limits	
MAC-TGG (OEL TWA)	25 mg/m ³
MAC-TGG (OEL TWA) [ppm]	50 ppm
Poland - Occupational Exposure Limits	
NDSch (OEL STEL)	25 mg/m ³
NDSP (OEL Ceiling)	50 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	50 mg/m ³
OEL STEL [ppm]	20 ppm
Romania - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	50 mg/m ³
OEL STEL [ppm]	20 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA) [1]	25 mg/m ³
NPHV (OEL TWA) [2]	10 ppm
NPHV (OEL STEL)	50 mg/m ³
Slovenia - Occupational Exposure Limits	
OEL TWA	25 mg/m ³
OEL TWA [ppm]	10 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	25 mg/m ³
VLA-ED (OEL TWA) [2]	10 ppm

Calcium Hardness N°1 (20 ml, 50 tests)

Safety Data Sheet

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

Calcium Hardness N°1 (20 ml, 50 tests)	
VLA-EC (OEL STEL)	50 mg/m ³
VLA-EC (OEL STEL) [ppm]	20 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	25 mg/m ³
NGV (OEL TWA) [ppm]	10 ppm
KTV (OEL STEL)	50 mg/m ³
KTV (OEL STEL) [ppm]	20 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA [1]	25 mg/m ³
WEL TWA [2]	10 ppm
WEL STEL	50 mg/m ³
WEL STEL (ppm)	20 ppm
Norway - Occupational Exposure Limits	
Korttidsverdi (OEL STEL)	50 mg/m ³
Korttidsverdi (OEL STEL) [ppm]	20 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	25 mg/m ³
MAK (OEL TWA) [2]	10 ppm
KZGW (OEL STEL)	50 mg/m ³
KZGW (OEL STEL) [ppm]	20 ppm
Acetic acid glacial (64-19-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Acetic acid
IOEL TWA	25 mg/m ³
IOEL TWA [ppm]	10 ppm
IOEL STEL	50 mg/m ³
IOEL STEL [ppm]	20 ppm
France - Occupational Exposure Limits	
Local name	Acide acétique
VLE (OEL Ceiling/STEL)	25 mg/m ³
VLE (OEL Ceiling/STEL) [ppm]	10 ppm
Remark	Valeurs recommandées/admises
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Essigsäure
AGW (OEL TWA) [1]	25 mg/m ³
AGW (OEL TWA) [2]	10 ppm
Remark	DFG,EU,Y
Portugal - Occupational Exposure Limits	
Local name	Ácido acético

Calcium Hardness N°1 (20 ml, 50 tests)

Safety Data Sheet

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

Acetic acid glacial (64-19-7)	
OEL TWA [ppm]	10 ppm
OEL STEL [ppm]	15 ppm
Spain - Occupational Exposure Limits	
Local name	Ácido acético
VLA-ED (OEL TWA) [1]	25 mg/m ³
VLA-ED (OEL TWA) [2]	10 ppm
VLA-EC (OEL STEL)	37 mg/m ³
VLA-EC (OEL STEL) [ppm]	15 ppm
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).

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear security glasses which protect from splashes

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Calcium Hardness N°1 (20 ml, 50 tests)

Safety Data Sheet

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

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves					EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions. In case of inadequate ventilation wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: Acrid.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 5,3
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	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions of use.

Calcium Hardness N°1 (20 ml, 50 tests)

Safety Data Sheet

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

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

No additional information available

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

Calcium Hardness N°1 (20 ml, 50 tests)

LD50 oral rat	3310 mg/kg
LD50 dermal rabbit	1060 mg/kg
LC50 inhalation rat (mg/l)	11,4 mg/l

Acetic acid glacial (64-19-7)

LD50 oral rat	3310 mg/kg bodyweight Animal: rat
LD50 oral	4960 mg/kg bodyweight Animal: mouse
LC50 inhalation rat (Dust/Mist - mg/l/4h)	11,4 mg/l/4h

Skin corrosion/irritation : Not classified
pH: 5,3

Acetic acid glacial (64-19-7)

pH	2,4
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Serious eye damage/irritation : Causes serious eye irritation.
pH: 5,3

Acetic acid glacial (64-19-7)

pH	2,4
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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

Acetic acid glacial (64-19-7)

NOAEL (oral, rat, 90 days)	290 mg/kg bodyweight Animal: rat, Animal sex: male
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Aspiration hazard : Not classified

Calcium Hardness N°1 (20 ml, 50 tests)

Safety Data Sheet

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

Acetic acid glacial (64-19-7)

Viscosity, kinematic	1,015 mm ² /s
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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : Not applicable

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

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

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

Calcium Hardness N°1 (20 ml, 50 tests)

LC50 - Fish [1]	75 mg/l
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EC50 - Daphnia [1]	65 mg/l
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Acetic acid glacial (64-19-7)

LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
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LC50 - Fish [2]	> 300,82 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
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EC50 - Daphnia [1]	> 1000 mg/l Test organisms (species): Daphnia magna
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EC50 - Daphnia [2]	> 300,82 mg/l Test organisms (species): Daphnia magna
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EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Skeletonema costatum
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EC50 72h - Algae [2]	> 300,82 mg/l Test organisms (species): Skeletonema costatum
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12.2. Persistence and degradability

Acetic acid glacial (64-19-7)

Persistence and degradability	Readily biodegradable.
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Biodegradation	94 %
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12.3. Bioaccumulative potential

Acetic acid glacial (64-19-7)

BCF - Fish [1]	3,16
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12.4. Mobility in soil

No additional information available

Calcium Hardness N°1 (20 ml, 50 tests)

Safety Data Sheet

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

12.5. Results of PBT and vPvB assessment

Calcium Hardness N°1 (20 ml, 50 tests)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Other adverse effects : Do not discharge into drains or rivers.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Must follow special treatment according to local regulation.

SECTION 14: Transport information

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

14.1. UN number or ID number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : Not applicable

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

ADN
Transport hazard class(es) (ADN) : Not applicable

RID
Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable

Calcium Hardness N°1 (20 ml, 50 tests)

Safety Data Sheet

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

Packing group (RID) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available

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

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

Calcium Hardness N°1 (20 ml, 50 tests)

Safety Data Sheet

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

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Switzerland

Storage class (LK) : LK 10/12 - Liquids

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
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2

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.