# lab**kem**

# **Biuret reagent Analytical Grade**

#### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date of issue: 24/03/2015 Revision date: 19/11/2024 Supersedes version of: 12/09/2023 Version: 1.5

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

#### **1.1. Product identifier**

Product form Name Trade name	<ul><li>Mixture</li><li>Biuret reagent</li><li>Biuret reagent Analytical Grade</li></ul>
UFI	: YJ10-00QU-E00S-RUN2
Product code	: BIUR-00A

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

#### **Relevant identified uses**

Main use category

: Laboratory use

#### **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 (Technic information.Office hours.) Servicio de Información Toxicológica (Instituto Nacional de Toxicología y Ciencias Forenses) Teléfono: +34 91
 5620420.Información en español (24h/365 días). Únicamente con la finalidad de proporcionar respuesta sanitaria en caso de urgencia (ONLY IN CASE OF EMERGENCY)"

Country/Area	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] Skin corrosion/irritation, Category 2 H315

Serious eye damage/eye irritation, Category 2	H319
Hazardous to the aquatic environment — Chronic Hazard,	H411
Category 2	
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)



### Safety Data Sheet

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

Signal word (CLP)	: Warning
Hazard statements (CLP)	: H315 - Causes skin irritation.
	H319 - Causes serious eye irritation.
	H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P264 - Wash hands, forearms and face thoroughly after handling.
	P273 - Avoid release to the environment.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
	P391 - Collect spillage.
	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

PBT: not relevant - no registration required

Contains no PBT/vPvB substances ≥ 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

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
copper sulphate pentahydrate	CAS-No.: 7758-99-8 EC-No.: 231-847-6 EC Index-No.: 029-023-00-4	1 – 3	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
SODIUM HYDROXIDE	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892- 27	1-3	Skin Corr. 1A, H314
POTASSIUM IODIDE	CAS-No.: 7681-11-0 EC-No.: 231-659-4	1 – 3	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319

Specific concentration limits:			
Name	Product identifier	Specific concentration limits (%)	
SODIUM HYDROXIDE	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892- 27	$(0,5 \le C < 2)$ Eye Irrit. 2; H319 $(0,5 \le C < 2)$ Skin Irrit. 2; H315 $(2 \le C < 5)$ Skin Corr. 1B; H314 $(5 \le C < 100)$ 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

: Get medical advice/attention if you feel unwell.

### Safety Data Sheet

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

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	<ul> <li>Gently wash with plenty of soap and water. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention.</li> </ul>
First-aid measures after eye contact	<ul> <li>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 ophtalmologist if irritation persists.</li> </ul>
First-aid measures after ingestion	: Rinse mouth. Drink plenty of water. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/effects after skin contact Symptoms/effects after eye contact	: Causes skin irritation. : Causes serious eye irritation.

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

Never give anything by mouth to an unconscious person.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Carbon dioxide. Foam. Dry powder.	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	: Corrosive vapours.	
5.3. Advice for firefighters		
Firefighting instructions	: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.	
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 e	equipment and emergency procedures		
For non-emergency personnel Emergency procedures For emergency responders Protective equipment	<ul><li>Evacuate unnecessary personnel.</li><li>Equip cleanup crew with proper protection.</li></ul>		
6.2. Environmental precautions			
Prevent entry to sewers and public waters.			
6.3. Methods and material for contain	nent and cleaning up		
For containment Methods for cleaning up	<ul> <li>Collect spillage.</li> <li>This material and its container must be disposed of in a safe way, and as per local legislation. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. Collect spillage.</li> </ul>		

### 6.4. Reference to other sections

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

# Safety Data Sheet

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

SECTION 7: Handling and storage		
7.1. Precautions for safe handling	3	
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, i	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.	
Incompatible products	: Strong bases. Strong acids.	
Incompatible materials	: Sources of ignition. Direct sunlight.	
Storage area	: Store in a dry area. Keep container tight closed. Store in a cool, well-ventilated place. The floor of the depot should be impermeable and designed to form a water-tight basin.	
Special rules on packaging	: Store in a closed container. Keep only in original container.	
7.3 Specific end use(s)		

Laboratory chemicals.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### National occupational exposure and biological limit values

SODIUM HYDROXIDE (1310-73-2)		
France - Occupational Exposure Limits		
Local name	Hydroxyde de sodium	
VME (OEL TWA)	2 mg/m <sup>3</sup>	
Remark	Valeurs recommandées/admises	
Portugal - Occupational Exposure Limits		
Local name	Hidróxido de sódio	
OEL Ceiling	2 mg/m <sup>3</sup>	
Spain - Occupational Exposure Limits		
Local name	Hidróxido de sodio	
VLA-EC (OEL STEL)	2 mg/m <sup>3</sup>	
United Kingdom - Occupational Exposure Limits		
Local name	Sodium hydroxide	
WEL STEL	2 mg/m³	

#### **DNEL and PNEC**

Biuret reagent Analytical Grade		
DNEL/DMEL (Workers)		
Acute - systemic effects, dermal	140 mg/kg bw/day	
Acute - systemic effects, inhalation	70 mg/m³	
DNEL/DMEL (General population)		
Acute - systemic effects, dermal	50 mg/kg bw/day	
Acute - systemic effects, inhalation	35 mg/m <sup>3</sup>	
Acute - systemic effects, oral	10 mg/kg bw/day	

### Safety Data Sheet

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

Biuret reagent Analytical Grade		
PNEC (Water)		
PNEC aqua (freshwater)	75 – 597	
PNEC aqua (marine water)	100 µg/L	
PNEC (Sediment)		
PNEC sediment (freshwater)	7,5 – 2940	
PNEC sediment (marine water)	294 µg/L	
PNEC (Soil)		
PNEC soil	237 µg/kg wet weight	

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. EN 374. Personal protective equipment symbol(s):



#### Eye and face protection

Eye protection: Safety glasses

Eye protection				
Туре		Field of application	Characteristics	Standard
				EN 166

#### **Skin protection**

#### Skin and body protection:

Wear suitable protective clothing

Skin and body protection	
Туре	Standard
Protective clothing	

#### Hand protection:

Nitrile rubber (NBR) /

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
		6 (> 480 minutes)	0.2 mm		EN 374-2, EN ISO 374, EN 388

#### **Respiratory protection**

#### Respiratory protection:

Wear respiratory protection.

### Safety Data Sheet

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

Respiratory protection			
Device	Filter type	Condition	Standard
			EN 14387

### SECTION 9: Physical and chemical properties

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

:	Liquid
:	Blue.
:	Not available
:	Not applicable

#### 9.2. Other information

No additional information available

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

#### 10.1. Reactivity

No additional information available

**10.2. Chemical stability** 

Stable under recommended handling and storage conditions (see section 7).

**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 acids. Strong bases. Oxidizing agent. Strong reducing agents.

10.6. Hazardous decomposition products

No additional information available

### Safety Data Sheet

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

#### **SECTION 11: Toxicological information** 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity (oral) : Not classified : Not classified Acute toxicity (dermal) Acute toxicity (inhalation) : Not classified Skin corrosion/irritation : Causes skin irritation. Serious eye damage/irritation : Causes serious eye irritation. 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 11.2. Information on other hazards **Endocrine disrupting properties**

Adverse health effects caused by endocrine disrupting properties

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

· · · · · · · · · · · · · · · · · · ·	
Ecology - water	: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term	: Not classified
(acute)	
Hazardous to the aquatic environment, long-term	: Toxic to aquatic life with long lasting effects.
(chronic)	

: Not applicable

#### 12.2. Persistence and degradability

Biuret reagent Analytical Grade		
Persistence and degradability	Rapidly degradable	
copper sulphate pentahydrate (7758-99-8)		
Persistence and degradability	Rapidly degradable	
SODIUM HYDROXIDE (1310-73-2)		
Persistence and degradability	Rapidly degradable	
POTASSIUM IODIDE (7681-11-0)		
Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential		
No additional information available		

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

**Biuret reagent Analytical Grade** 

PBT: not relevant – no registration required

# Safety Data Sheet

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

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	s

13.1. Waste treatment methods	
Regional legislation (waste) Waste treatment methods HP Code	<ul> <li>Disposal must be done according to official regulations.</li> <li>Must follow special treatment according to local regulation.</li> <li>HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment</li> </ul>

### **SECTION 14: Transport information**

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

14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	<ul> <li>: UN 3266</li> </ul>
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) (ADR) Transport document description (IMDG) Transport document description (IATA) Transport document description (ADN) Transport document description (RID)	<ul> <li>CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.</li> <li>UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Biuret reagent ), 8, III, (E), ENVIRONMENTALLY HAZARDOUS</li> <li>UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Biuret reagent ), 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS</li> <li>UN 3266 Corrosive liquid, basic, inorganic, n.o.s. (Biuret reagent ), 8, III, ENVIRONMENTALLY HAZARDOUS</li> <li>UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Biuret reagent ), 8, III, ENVIRONMENTALLY HAZARDOUS</li> <li>UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Biuret reagent ), 8, III, ENVIRONMENTALLY HAZARDOUS</li> <li>UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Biuret reagent ), 8, III, ENVIRONMENTALLY HAZARDOUS</li> <li>UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Biuret reagent ), 8, III, ENVIRONMENTALLY HAZARDOUS</li> <li>UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Biuret reagent ), 8, III, ENVIRONMENTALLY HAZARDOUS</li> <li>UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Biuret reagent ), 8, III, ENVIRONMENTALLY HAZARDOUS</li> <li>UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Biuret reagent ), 8, III, ENVIRONMENTALLY HAZARDOUS</li> </ul>
14.3. Transport hazard class(es)	ENVIRONMENTALLY HAZARDOUS
ADR Transport hazard class(es) (ADR)	: 8
Danger Jabels (ADR)	· 8

# Danger labels (ADR)



: 8

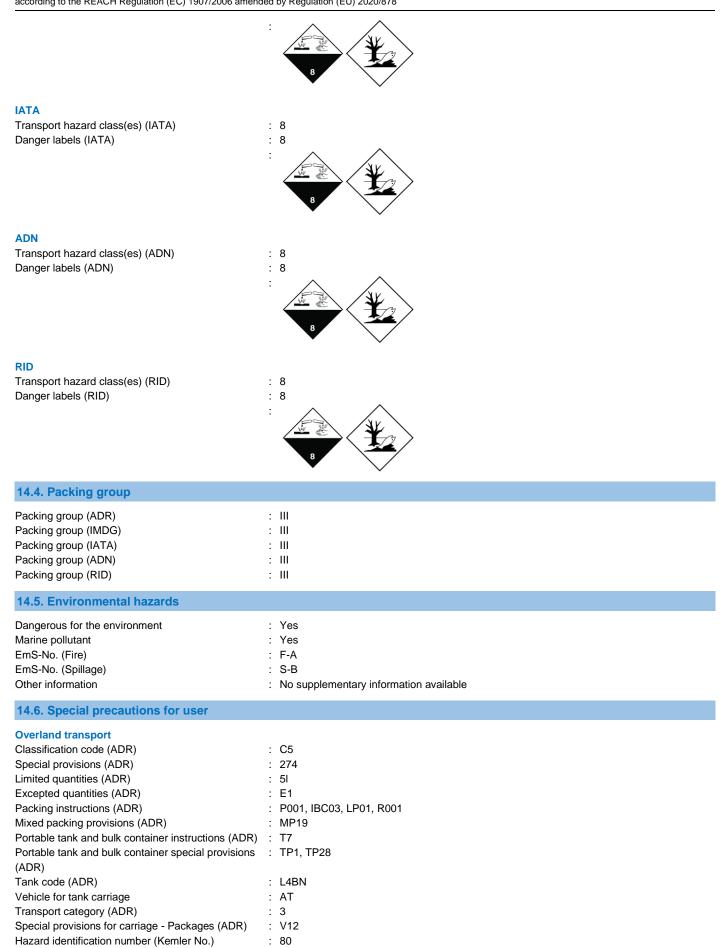
: 8

#### IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)

#### Safety Data Sheet

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



# Safety Data Sheet

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

according to the REACH Regulation (EC) 1907/2006 amend	deu by Regulation (ED) 2020/878
Orange plates	<b>80</b> <b>3266</b>
Tunnel restriction code (ADR)	: E
EAC code	: 2X
APP code	: B
Transport by sea	
Special provisions (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1 : P001.LP01
Packing instructions (IMDG) IBC packing instructions (IMDG)	: P001, LP01 : IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2
Segregation (IMDG)	: SGG18, SG35
Properties and observations (IMDG)	: Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.
Air transport	. 54
PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	: E1 : Y841
PCA limited quantities (IATA) PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L
Inland waterway transport	
Classification code (ADN)	: C5
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: Т
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: C5
Special provisions (RID)	: 274
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1, TP28
Tank codes for RID tanks (RID)	: L4BN
Special provisions for RID tanks (RID)	: TU42
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID) Colis express (express parcels) (RID)	: W12 : CE8
Hazard identification number (RID)	: CE8 : 80

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

### Safety Data Sheet

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

#### **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(b)	Biuret reagent Analytical Grade
3(c)	Biuret reagent Analytical Grade

#### **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 (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

#### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

#### **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.

#### **National regulations**

#### Germany

VOC ordinance (ChemVOCFarbV)	
Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)	<ul> <li>WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).</li> <li>Is not subject of the Hazardous Incident Ordinance (12. BImSchV)</li> </ul>
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

#### 15.2. Chemical safety assessment

No additional information available

# Safety Data Sheet

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

SECTION 16: Other information		
Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	

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.