

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier

<b>Product Form</b>	: Mixture
<b>Product Name</b>	: KOVA-Trol® I: (High Abnormal)
<b>Synonyms</b>	: 87329 KOVA-Trol® I: high abnormal w/o urobilinogen 87325 KOVA-Trol® I: high abnormal w/o urobilinogen 87426 KOVA-Trol® I: high abnormal w/o urobilinogen 87332 KOVA-Trol® I: high abnormal w urobilinogen 87533 KOVA-Trol® I: high abnormal w urobilinogen 87334 KOVA-Trol® I: high abnormal w urobilinogen 87329E KOVA-Trol® I: high abnormal w/o urobilinogen 87325E KOVA-Trol® I: high abnormal w/o urobilinogen 87426E KOVA-Trol® I: high abnormal w/o urobilinogen 87332E KOVA-Trol® I: high abnormal w urobilinogen 87533E KOVA-Trol® I: high abnormal w urobilinogen 87334E KOVA-Trol® I: high abnormal w urobilinogen

### 1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

#### 1.2.1. Relevant Identified Uses

<b>Industrial/Professional Use Spec</b>	: Industrial. For professional use only.
<b>Use of the Substance/Mixture</b>	: In vitro diagnostic use

#### 1.2.2. Uses Advised Against

<b>Uses Advised Against</b>	: For in vitro diagnostic use only
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### 1.3. Details of the Supplier of the Safety Data Sheet

#### Company

Kova International, Inc.  
7272 Chapman Avenue, Suite B  
Garden Grove, CA 92841  
Tel: 1-714-902-1700  
Fax: 1-714-908-7945  
Business hours: (8:00 a.m. - 5:00 p.m., PST, Monday - Friday)  
Email: Kova.CustomerService@LGCGroup.com  
Website: [www.kovaintl.com](http://www.kovaintl.com)

### 1.4. Emergency Telephone Number

<b>Emergency Number</b>	: 1-714-902-1700 (8:00 a.m. - 5:00 p.m., PST, Monday - Friday)
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## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

**Classification According to Regulation (EC) No. 1272/2008**

Not classified

### 2.2. Label Elements

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

<b>EUH-statements</b>	: EUH210 - Safety data sheet available on request.
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### 2.3. Other Hazards

<b>Other Hazards Not Contributing to the Classification</b>	: Exposure may aggravate pre-existing eye, skin, or respiratory conditions. May cause an allergic reaction in sensitive individuals.
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This substance/mixture does not meet the PBT/vPvB criteria of REACH regulation, annex XIII

The substance/mixture does not contain substance(s) equal to or greater than 0.1% by weight that are present in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or 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

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### 3.2. Mixtures

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008
Non-hazardous components	(CAS-No.) Not applicable	50,1883	Not classified
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	43,8675	Not classified
Glucose	(CAS-No.) 50-99-7 (EC-No.) 200-075-1	2,5	Not classified
Albumins, blood serum	(CAS-No.) 9048-46-8 (EC-No.) 232-936-2	1,42	Not classified
1H-Pyrrole	(CAS-No.) 109-97-7 (EC-No.) 203-724-7	0,75	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318
4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl-	(CAS-No.) 60-27-5 (EC-No.) 200-466-7	0,4	Not classified
Phosphoric acid, disodium salt	(CAS-No.) 7558-79-4 (EC-No.) 231-448-7	0,3	Not classified
Phosphoric acid, potassium salt (1:1)	(CAS-No.) 7778-77-0 (EC-No.) 231-913-4	0,2	Not classified
Lithium acetoacetate	(CAS-No.) 3483-11-2	0,18	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Sodium hydroxide	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	< 0,1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318
Hydrochloric acid	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-00-2	< 0,1	Press. Gas Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335
D-erythro-Hex-2-enonic acid, .gamma.-lactone	(CAS-No.) 89-65-6 (EC-No.) 201-928-0	0,06	Not classified
Sodium chloride	(CAS-No.) 7647-14-5 (EC-No.) 231-598-3	0,06	Not classified
Ethanedioic acid, diammonium salt, monohydrate	(CAS-No.) 6009-70-7 (EC-No.) 214-202-3;611-933-3	0,036	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319
Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[5-methyl-2-(1-methylethyl)-, S,S-dioxide, monosodium salt	(CAS-No.) 62625-21-2 (EC-No.) 263-650-6	0,022	Not classified
Gentamicin	(CAS-No.) 1403-66-3 (EC-No.) 215-765-8	0,016	Not classified
Ethanesulfonic acid, 2,2'-[(2,17-diethenyl-1,10,11,19,22,23-hexahydro-3,7,13,18-tetramethyl-1,19-dioxo-21H-biline-8,12-diy)]bis[(1-oxo-3,1-propanediyl)imino]]bis-, disodium salt	(CAS-No.) 68683-34-1 (EC-No.) 272-072-3	0,0135	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
Proteinase	(CAS-No.) 9001-92-7 (EC-No.) 232-642-4	0,0127	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335
Hemoglobins	(CAS-No.) 9008-02-0	0,01	Not classified
Monopotassium carbonate	(CAS-No.) 298-14-6 (EC-No.) 206-059-0;209-529-3	0,01	Not classified
Sodium nitrite	(CAS-No.) 7632-00-0 (EC-No.) 231-555-9 (EC Index-No.) 007-010-00-4	0,0068	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Eye Irrit. 2, H319 Aquatic Acute 1, H400
Calcium chloride	(CAS-No.) 10043-52-4 (EC-No.) 233-140-8 (EC Index-No.) 017-013-00-2	0,0065	Eye Irrit. 2, H319
Potassium ferricyanide	(CAS-No.) 13746-66-2 (EC-No.) 237-323-3	0,002	Aquatic Chronic 3, H412
Potassium cyanide	(CAS-No.) 151-50-8 (EC-No.) 205-792-3	0,0005	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330

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Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008
			Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

### 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	( 0,5 ≤C < 2) Skin Irrit. 2, H315 ( 0,5 ≤C < 2) Eye Irrit. 2, H319 ( 2 ≤C < 5) Skin Corr. 1B, H314 ( 5 ≤C < 100) Skin Corr. 1A, H314
Hydrochloric acid	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-00-2	( 0,1 ≤C < 10) Met. Corr. 1, H290 ( 10 ≤C < 25) Skin Irrit. 2, H315 ( 10 ≤C < 25) Eye Irrit. 2, H319 ( 10 ≤C < 25) STOT SE 3, H335 ( 10 ≤C < 25) Met. Corr. 1, H290 ( 25 ≤C < 100) Skin Corr. 1B, H314 ( 25 ≤C < 100) STOT SE 3, H335 ( 25 ≤C < 100) Met. Corr. 1, H290

Full text of H-statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

- First-Aid Measures General** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-Aid Measures After Inhalation** : When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
- First-Aid Measures After Skin Contact** : Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.
- First-Aid Measures After Eye Contact** : Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
- First-Aid Measures After Ingestion** : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

- Symptoms/Effects** : Not expected to present a significant hazard under anticipated conditions of normal use.
- Symptoms/Effects After Inhalation** : Prolonged exposure may cause irritation. May cause exacerbation of asthma.
- Symptoms/Effects After Skin Contact** : Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive individuals.
- Symptoms/Effects After Eye Contact** : May cause slight irritation to eyes.
- Symptoms/Effects After Ingestion** : Ingestion may cause adverse effects.
- Chronic Symptoms** : None known.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing Media

- Suitable Extinguishing Media** : Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.
- Unsuitable Extinguishing Media** : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

- Fire Hazard** : Not considered flammable but may burn at high temperatures.
- Explosion Hazard** : Product is not explosive.
- Reactivity** : Hazardous reactions will not occur under normal conditions.
- Hazardous Combustion Products** : Carbon oxides (CO, CO<sub>2</sub>). Chlorine compounds. Nitrogen oxides. Phosphorus oxides.

### 5.3. Advice for Firefighters

- Precautionary Measures Fire** : Exercise caution when fighting any chemical fire.
- Firefighting Instructions** : Use water spray or fog for cooling exposed containers. Do not breathe fumes from fires or vapours from decomposition.
- Protection During Firefighting** : Do not enter fire area without proper protective equipment, including respiratory protection.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures** : Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapour, mist, spray).

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment** : Use appropriate personal protective equipment (PPE).

**Emergency Procedures** : Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Responders

**Protective Equipment** : Equip cleanup crew with proper protection.

**Emergency Procedures** : Upon arrival at the scene, a first responder is expected to recognise the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment** : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up** : Clean up spills immediately and dispose of waste safely. Ventilate area. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling** : Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapours, mist, spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Hygiene Measures** : Handle in accordance with good industrial hygiene and safety procedures. Wash contaminated clothing before reuse.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures** : Comply with applicable regulations.

**Storage Conditions** : Store in accordance with applicable national storage class systems. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a dry, cool place. Protect from light.

**Incompatible Materials** : Strong acids, strong bases, strong oxidisers.

**Storage Temperature** : 2 – 8 °C (35.6 to 46.4°F)

### 7.3. Specific End Use(s)

In vitro diagnostic use

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

Please see section 16 for the legal basis of limit value information in section 8.1, including the national legislation or provision which gives rise to a given limit.

Gentamicin (1403-66-3)		
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	0,1 mg/m <sup>3</sup>
Bulgaria	OEL STEL (Legal Basis:Reg. No. 13/10)	0,6 mg/m <sup>3</sup>
Monopotassium carbonate (298-14-6)		
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	5 mg/m <sup>3</sup>
Potassium ferricyanide (13746-66-2)		
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	4 mg/m <sup>3</sup>
Potassium cyanide (151-50-8)		
EU	IOELV TWA (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	1 mg/m <sup>3</sup>
EU	IOELV STEL (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	5 mg/m <sup>3</sup>
EU	Remark	Possibility of significant uptake through the skin
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	1 mg/m <sup>3</sup> (inhalable fraction (Cyanide ion))
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	5 mg/m <sup>3</sup> (inhalable fraction (Cyanide anion))

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Potassium cyanide (151-50-8)		
Austria	OEL Chemical Category (Legal Basis:BGBl. II Nr. 254/2018)	Skin notation
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	1 mg/m <sup>3</sup>
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	5 mg/m <sup>3</sup>
Belgium	OEL Chemical Category (Legal Basis:Royal Decree 21/01/2020)	Skin, Skin notation
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	1 mg/m <sup>3</sup>
Bulgaria	OEL STEL (Legal Basis:Reg. No. 13/10)	5 mg/m <sup>3</sup>
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	1 mg/m <sup>3</sup>
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	5 mg/m <sup>3</sup>
Croatia	OEL Chemical Category (Legal Basis:OG No. 91/2018)	Skin notation as CN
Cyprus	OEL TWA (Legal Basis:KDP 16/2019)	1 mg/m <sup>3</sup>
Cyprus	OEL STEL (Legal Basis:KDP 16/2019)	5 mg/m <sup>3</sup> (as Cyanide)
Cyprus	OEL Chemical Category (Legal Basis:KDP 16/2019)	Skin-potential for cutaneous absorption as Cyanide
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	1 mg/m <sup>3</sup>
Denmark	OEL Ceiling (Legal Basis:BEK No. 698 of 28/05/2020)	5 mg/m <sup>3</sup> (Cyanides, alkali metal)
Denmark	OEL Chemical Category (Legal Basis:BEK No. 698 of 28/05/2020)	Potential for cutaneous absorption
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	1 mg/m <sup>3</sup>
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	5 mg/m <sup>3</sup>
Estonia	OEL Chemical Category (Legal Basis:Regulation No. 105)	Skin notation
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	1 mg/m <sup>3</sup> (Cyanides)
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	5 mg/m <sup>3</sup>
Finland	OEL Chemical Category HTP-ARVOT 2020)	Potential for cutaneous absorption
France	OEL Chemical Category (Legal Basis:INRS ED 984)	Risk of cutaneous absorption
Germany	OEL TWA (Legal Basis:TRGS 900)	1 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Germany	OEL Chemical Category (Legal Basis:TRGS 900)	Skin notation
Gibraltar	OEL TWA (Legal Basis:LN. 2018/181)	1 mg/m <sup>3</sup> (as Cyanide)
Gibraltar	OEL STEL (Legal Basis:LN. 2018/181)	5 mg/m <sup>3</sup> (as Cyanide)
Gibraltar	OEL Chemical Category (Legal Basis:LN. 2018/181)	Skin notation as Cyanide
Greece	OEL TWA (Legal Basis:PWHSE)	1 mg/m <sup>3</sup>
Greece	OEL STEL (Legal Basis:PWHSE)	5 mg/m <sup>3</sup>
Greece	OEL Chemical Category (Legal Basis:PWHSE)	skin - potential for cutaneous absorption as cyanide
Ireland	OEL TWA (Legal Basis:2020 COP)	1 mg/m <sup>3</sup>
Ireland	OEL STEL (Legal Basis:2020 COP)	5 mg/m <sup>3</sup>
Ireland	OEL Chemical Category (Legal Basis:Decree No. 05/2020)	Potential for cutaneous absorption Cyanide
USA ACGIH	OEL Ceiling (Legal Basis:IMDFN1)	5 mg/m <sup>3</sup> (Hydrogen cyanide and cyanide salts)
Italy	OEL TWA (Legal Basis:Decree 81)	1 mg/m <sup>3</sup>
Italy	OEL STEL (Legal Basis:Decree 81)	5 mg/m <sup>3</sup>
Italy	OEL Chemical Category (Legal Basis:Decree 81)	skin - potential for cutaneous absorption
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	1 mg/m <sup>3</sup>
Latvia	OEL Chemical Category (Legal Basis:Reg. No. 325)	skin - potential for cutaneous exposure
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	1 mg/m <sup>3</sup>
Lithuania	OEL Ceiling (Legal Basis:HN 23:2011)	5 mg/m <sup>3</sup>
Lithuania	OEL Chemical Category (Legal Basis:HN 23:2011)	Skin notation
Luxembourg	OEL TWA (Legal Basis:A-N 684)	1 mg/m <sup>3</sup> (expressed in cyanide)
Luxembourg	OEL Chemical Category (Legal Basis:A-N 684)	Possibility of significant uptake through the skin expressed as cyanide
Malta	OEL TWA (Legal Basis:MOHSAA Ch. 424)	1 mg/m <sup>3</sup>
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	5 mg/m <sup>3</sup> (Cn)
Malta	OEL Chemical Category (Legal Basis:MOHSAA Ch. 424)	Possibility of significant uptake through the skin
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	1 mg/m <sup>3</sup>
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	0,9 ppm
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	5 mg/m <sup>3</sup> (value from the regulation)
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	4 ppm (value from the regulation)
Norway	OEL Chemical Category (Legal Basis:FOR-2020-04-06-695)	Skin notation
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	1 mg/m <sup>3</sup> (inhalable fraction)
Poland	OEL Ceiling (Legal Basis:Dz. U. 2020 Nr. 61)	5 mg/m <sup>3</sup> (Hydrogen cyanide and cyanides)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	1 mg/m <sup>3</sup> (as cyanide)

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<b>Potassium cyanide (151-50-8)</b>		
Portugal	OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014)	5 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL Ceiling (Legal Basis:Portuguese Norm NP 1796:2014)	5 mg/m <sup>3</sup>
Portugal	OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014)	skin - potential for cutaneous exposure
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	0,5 mg/m <sup>3</sup>
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	1 mg/m <sup>3</sup>
Romania	OEL Chemical Category (Legal Basis:Gov. Dec. No 1.218)	Skin notation
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	1 mg/m <sup>3</sup>
Slovakia	OEL STEL (Legal Basis:Gov. Decree 33/2018)	5 mg/m <sup>3</sup>
Slovakia	OEL Chemical Category (Legal Basis:Gov. Decree 33/2018)	Potential for cutaneous absorption
Slovenia	OEL TWA (Legal Basis:No. 79/19)	1 mg/m <sup>3</sup>
Slovenia	OEL STEL (Legal Basis:No. 79/19)	5 mg/m <sup>3</sup>
Slovenia	OEL Chemical Category (Legal Basis:No. 79/19)	Potential for cutaneous absorption as CN
Spain	OEL TWA (Legal Basis:OELCAIS)	1 mg/m <sup>3</sup>
Spain	OEL STEL (Legal Basis:OELCAIS)	5 mg/m <sup>3</sup>
Spain	OEL Chemical Category (Legal Basis:OELCAIS)	skin - potential for cutaneous absorption
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	1 mg/m <sup>3</sup> (inhalable fraction (Cyanides))
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	4 mg/m <sup>3</sup> (inhalable fraction (Cyanides))
Sweden	OEL Chemical Category (Legal Basis:AFS 2018:1)	Skin notation
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	5 mg/m <sup>3</sup> (inhalable dust)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	5 mg/m <sup>3</sup> (including Cyanide-inhalable dust)
Switzerland	OEL Chemical Category (Legal Basis:OLVSNAIF)	Skin notation, Category 2 reproductive toxin
<b>Proteinase (9001-92-7)</b>		
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	1 glycine unit/m <sup>3</sup>
<b>Calcium chloride (10043-52-4)</b>		
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	5 mg/m <sup>3</sup>
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	2 mg/m <sup>3</sup>
<b>Sodium nitrite (7632-00-0)</b>		
Lithuania	OEL Ceiling (Legal Basis:HN 23:2011)	0,1 mg/m <sup>3</sup>
<b>Sodium chloride (7647-14-5)</b>		
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	5 mg/m <sup>3</sup>
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	5 mg/m <sup>3</sup>
<b>Sodium hydroxide (1310-73-2)</b>		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	2 mg/m <sup>3</sup> (inhalable fraction)
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	4 mg/m <sup>3</sup> (inhalable fraction)
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	2 mg/m <sup>3</sup> (alkaline aerosols)
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	2 mg/m <sup>3</sup>
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	1 mg/m <sup>3</sup>
Denmark	OEL Ceiling (Legal Basis:BEK No. 698 of 28/05/2020)	2 mg/m <sup>3</sup>
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	1 mg/m <sup>3</sup>
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	2 mg/m <sup>3</sup>
Finland	OEL Ceiling (Legal Basis:HTP-ARVOT 2020)	2 mg/m <sup>3</sup>
France	OEL TWA (Legal Basis:INRS ED 984)	2 mg/m <sup>3</sup>
Greece	OEL TWA (Legal Basis:PWHSE)	2 mg/m <sup>3</sup>
Greece	OEL STEL (Legal Basis:PWHSE)	2 mg/m <sup>3</sup>
Hungary	OEL TWA (Legal Basis:Decree No. 05/2020)	1 mg/m <sup>3</sup>
Hungary	OEL STEL (Legal Basis:Decree No. 05/2020)	2 mg/m <sup>3</sup>
Ireland	OEL STEL (Legal Basis:2020 COP)	2 mg/m <sup>3</sup>
USA ACGIH	OEL Ceiling (Legal Basis:IMDFN1)	2 mg/m <sup>3</sup>
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	0,5 mg/m <sup>3</sup>
Lithuania	OEL Ceiling (Legal Basis:HN 23:2011)	2 mg/m <sup>3</sup>
Norway	OEL Ceiling (Legal Basis:FOR-2020-04-06-695)	2 mg/m <sup>3</sup>
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	0,5 mg/m <sup>3</sup>
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	1 mg/m <sup>3</sup>
Portugal	OEL Ceiling (Legal Basis:Portuguese Norm NP 1796:2014)	2 mg/m <sup>3</sup>
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	2 mg/m <sup>3</sup>

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<b>Sodium hydroxide (1310-73-2)</b>		
Spain	OEL STEL (Legal Basis:OELCAIS)	2 mg/m <sup>3</sup>
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	1 mg/m <sup>3</sup> (inhalable fraction)
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	2 mg/m <sup>3</sup> (inhalable fraction)
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	2 mg/m <sup>3</sup> (inhalable dust)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	2 mg/m <sup>3</sup> (inhalable dust)
<b>Hydrochloric acid (7647-01-0)</b>		
EU	IOELV TWA (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	8 mg/m <sup>3</sup>
EU	IOELV TWA (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	5 ppm
EU	IOELV STEL (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	15 mg/m <sup>3</sup>
EU	IOELV STEL (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	10 ppm
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	8 mg/m <sup>3</sup>
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	5 ppm
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	15 mg/m <sup>3</sup>
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	10 ppm
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	8 mg/m <sup>3</sup>
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	5 ppm
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	15 mg/m <sup>3</sup>
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	10 ppm
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	8 mg/m <sup>3</sup>
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	5 ppm
Bulgaria	OEL STEL (Legal Basis:Reg. No. 13/10)	15 mg/m <sup>3</sup>
Bulgaria	OEL STEL (Legal Basis:Reg. No. 13/10)	10 ppm
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	8 mg/m <sup>3</sup>
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	5 ppm
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	15 mg/m <sup>3</sup>
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	10 ppm
Cyprus	OEL TWA (Legal Basis:KDP 16/2019)	8 mg/m <sup>3</sup>
Cyprus	OEL TWA (Legal Basis:KDP 16/2019)	5 ppm
Cyprus	OEL STEL (Legal Basis:KDP 16/2019)	15 mg/m <sup>3</sup>
Cyprus	OEL STEL (Legal Basis:KDP 16/2019)	10 ppm
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	8 mg/m <sup>3</sup>
Denmark	OEL Ceiling (Legal Basis:BEK No. 698 of 28/05/2020)	8 mg/m <sup>3</sup>
Denmark	OEL Ceiling (Legal Basis:BEK No. 698 of 28/05/2020)	5 ppm
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	8 mg/m <sup>3</sup>
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	5 ppm
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	15 mg/m <sup>3</sup>
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	10 ppm
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	7,6 mg/m <sup>3</sup> (anhydrous and in solution)
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	5 ppm (anhydrous and in solution)
France	OEL STEL (Legal Basis:INRS ED 984)	7,6 mg/m <sup>3</sup> (restrictive limit)
France	OEL STEL (Legal Basis:INRS ED 984)	5 ppm (restrictive limit)
Germany	OEL TWA (Legal Basis:TRGS 900)	3 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	OEL TWA (Legal Basis:TRGS 900)	2 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar	OEL TWA (Legal Basis:LN. 2018/181)	8 mg/m <sup>3</sup>
Gibraltar	OEL TWA (Legal Basis:LN. 2018/181)	5 ppm
Gibraltar	OEL STEL (Legal Basis:LN. 2018/181)	15 mg/m <sup>3</sup>
Gibraltar	OEL STEL (Legal Basis:LN. 2018/181)	10 ppm
Greece	OEL TWA (Legal Basis:PWHSE)	7 mg/m <sup>3</sup>
Greece	OEL TWA (Legal Basis:PWHSE)	5 ppm
Greece	OEL STEL (Legal Basis:PWHSE)	7 mg/m <sup>3</sup>
Greece	OEL STEL (Legal Basis:PWHSE)	5 ppm
Hungary	OEL TWA (Legal Basis:Decree No. 05/2020)	8 mg/m <sup>3</sup>
Hungary	OEL STEL (Legal Basis:Decree No. 05/2020)	16 mg/m <sup>3</sup>
Ireland	OEL TWA (Legal Basis:2020 COP)	8 mg/m <sup>3</sup>
Ireland	OEL TWA (Legal Basis:2020 COP)	5 ppm

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Hydrochloric acid (7647-01-0)		
Ireland	OEL STEL (Legal Basis:2020 COP)	15 mg/m <sup>3</sup>
Ireland	OEL STEL (Legal Basis:2020 COP)	10 ppm
USA ACGIH	OEL Ceiling (Legal Basis:IMDFN1)	2 ppm
Italy	OEL TWA (Legal Basis:Decree 81)	8 mg/m <sup>3</sup>
Italy	OEL TWA (Legal Basis:Decree 81)	5 ppm
Italy	OEL STEL (Legal Basis:Decree 81)	15 mg/m <sup>3</sup>
Italy	OEL STEL (Legal Basis:Decree 81)	10 ppm
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	8 mg/m <sup>3</sup>
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	5 ppm
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	8 mg/m <sup>3</sup>
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	5 ppm
Lithuania	OEL STEL (Legal Basis:HN 23:2011)	15 mg/m <sup>3</sup>
Lithuania	OEL STEL (Legal Basis:A-N 684)	10 ppm
Luxembourg	OEL TWA (Legal Basis:A-N 684)	8 mg/m <sup>3</sup>
Luxembourg	OEL TWA (Legal Basis:A-N 684)	5 ppm
Luxembourg	OEL STEL (Legal Basis:A-N 684)	15 mg/m <sup>3</sup>
Luxembourg	OEL STEL (Legal Basis:A-N 684)	10 ppm
Malta	OEL TWA (Legal Basis:MOHSAA Ch. 424)	8 mg/m <sup>3</sup>
Malta	OEL TWA (Legal Basis:MOHSAA Ch. 424)	5 ppm
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	15 mg/m <sup>3</sup>
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	10 ppm
Netherlands	OEL TWA (Legal Basis:OWCRLV)	8 mg/m <sup>3</sup>
Netherlands	OEL STEL (Legal Basis:OWCRLV)	15 mg/m <sup>3</sup>
Norway	OEL Ceiling (Legal Basis:FOR-2020-04-06-695)	7 mg/m <sup>3</sup>
Norway	OEL Ceiling (Legal Basis:FOR-2020-04-06-695)	5 ppm
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	5 mg/m <sup>3</sup>
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	10 mg/m <sup>3</sup>
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	8 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	5 ppm (indicative limit value)
Portugal	OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014)	15 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014)	10 ppm (indicative limit value)
Portugal	OEL Ceiling (Legal Basis:Portuguese Norm NP 1796:2014)	2 ppm
Portugal	OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014)	A4 - Not Classifiable as a Human Carcinogen
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	8 mg/m <sup>3</sup>
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	5 ppm
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	15 mg/m <sup>3</sup>
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	10 ppm
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	8 mg/m <sup>3</sup>
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	5 ppm
Slovakia	OEL STEL (Legal Basis:Gov. Decree 33/2018)	15 mg/m <sup>3</sup>
Slovenia	OEL TWA (Legal Basis:No. 79/19)	8 mg/m <sup>3</sup> (anhydrous)
Slovenia	OEL TWA (Legal Basis:No. 79/19)	5 ppm (anhydrous)
Slovenia	OEL STEL (Legal Basis:No. 79/19)	15 mg/m <sup>3</sup> (anhydrous)
Slovenia	OEL STEL (Legal Basis:No. 79/19)	10 ppm (anhydrous)
Spain	OEL TWA (Legal Basis:OELCAIS)	7,6 mg/m <sup>3</sup> (indicative limit value)
Spain	OEL TWA (Legal Basis:OELCAIS)	5 ppm (indicative limit value)
Spain	OEL STEL (Legal Basis:OELCAIS)	15 mg/m <sup>3</sup>
Spain	OEL STEL (Legal Basis:OELCAIS)	10 ppm
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	3 mg/m <sup>3</sup>
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	2 ppm
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	6 mg/m <sup>3</sup>
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	4 ppm
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	6 mg/m <sup>3</sup>
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	4 ppm
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	3 mg/m <sup>3</sup>
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	2 ppm



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## 8.2. Exposure Controls

**Appropriate Engineering Controls** : Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Suitable eye/body wash equipment should be available in the vicinity of any potential exposure.

**Personal Protective Equipment** : Gloves. Protective clothing. Protective goggles. Personal protective equipment should be chosen in accordance with Regulation (EU) 2016/425, CEN standards, and in discussion with the supplier of the protective equipment.



**Materials for Protective Clothing** : Chemically resistant materials and fabrics.

**Hand Protection** : Wear protective gloves.

**Eye Protection** : Chemical safety goggles.

**Skin and Body Protection** : Wear suitable protective clothing. In laboratory, medical or industrial settings, impervious disposable gloves and protective clothing are recommended if skin contact with drug product is possible.

**Respiratory Protection** : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information** : When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Colour, Appearance	: Amber, red
Odour	: No data available
Odour Threshold	: No data available
pH	: 7,5 – 8
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: ≈ 100 °C (212 °F)
Flash Point	: No data available
Auto-Ignition Temperature	: Not applicable
Decomposition Temperature	: No data available
Flammability	: Not applicable
Vapour Pressure	: No data available
Relative Vapour Density At 20 °C	: No data available
Relative Density	: No data available
Solubility	: Soluble in water
Partition Coefficient n-Octanol/Water	: No data available
Viscosity	: No data available
Explosive Properties	: No data available
Oxidising Properties	: No data available
Explosive Limits	: No data available
Particle Aspect Ratio	: Not applicable
Particle Aggregation State	: Not applicable
Particle Agglomeration State	: Not applicable
Particle Specific Surface Area	: Not applicable
Particle Dustiness	: Not applicable

### 9.2. Other Information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

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### 10.2. Chemical Stability

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

### 10.3. Possibility of Hazardous Reactions

Hazardous polymerisation will not occur.

### 10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

### 10.5. Incompatible Materials

Strong acids, strong bases, strong oxidisers.

### 10.6. Hazardous Decomposition Products

Not expected to decompose under ambient conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Hazard Classes As Defined In Regulation (EC) No 1272/2008

Likely Routes of Exposure	: Dermal; Eye contact; Ingestion Inhalation
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)

<b>Gentamicin (1403-66-3)</b>	
LD50 Oral Rat	6600 mg/kg
<b>Phosphoric acid, disodium salt (7558-79-4)</b>	
LD50 Oral Rat	17 g/kg
LD50 Dermal Rat	> 5000 mg/kg (50% solution)
<b>Phosphoric acid, potassium salt (1:1) (7778-77-0)</b>	
LD50 Oral Rat	> 2000 mg/kg (No deaths)
LD50 Dermal Rat	> 2000 mg/kg (No deaths)
LC50 Inhalation Rat	> 0,83 mg/l/4h (No deaths)
<b>Glucose (50-99-7)</b>	
LD50 Oral Rat	25800 mg/kg
<b>Monopotassium carbonate (298-14-6)</b>	
LD50 Oral Rat	> 2000 mg/kg bodyweight
LD50 Dermal Rabbit	> 2000 mg/kg bodyweight
LC50 Inhalation Rat	> 4,88 mg/l (Exposure time: 4.5 h - no mortalities)
<b>Potassium cyanide (151-50-8)</b>	
LD50 Oral Rat	7,49 mg/kg
LD50 Dermal Rabbit	22,3 mg/kg
LC50 Inhalation Rat	0,16 mg/l (Exposure time: 1 h)
LC50 Inhalation Rat	63 (52 – 79) ppm/1h
<b>Calcium chloride (10043-52-4)</b>	
LD50 Oral Rat	2301 mg/kg
LD50 Oral	1940 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
<b>Ethanedioic acid, diammonium salt, monohydrate (6009-70-7)</b>	
ATE CLP (Oral)	500 mg/kg bodyweight
ATE CLP (Dermal)	1100 mg/kg bodyweight
<b>Sodium nitrite (7632-00-0)</b>	
LD50 Oral Rat	85 mg/kg
LD50 Oral	77 mg/kg
LC50 Inhalation Rat	5,5 mg/l/4h
<b>1H-Pyrrole (109-97-7)</b>	
ATE CLP (Oral)	100 mg/kg bodyweight
ATE CLP (Inhalation)	1,50 mg/l/4h
<b>Ethanesulfonic acid, 2,2'-[(2,17-diethenyl-1,10,11,19,22,23-hexahydro-3,7,13,18-tetramethyl-1,19-dioxo-21H-biline-8,12-diyl)bis[(1-oxo-3,1-propanediyl)imino]]bis-, disodium salt (68683-34-1)</b>	
ATE CLP (Oral)	500 mg/kg bodyweight
<b>D-erythro-Hex-2-enonic acid, .gamma.-lactone (89-65-6)</b>	
LD50 Oral Rat	18 g/kg

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<b>Sodium chloride (7647-14-5)</b>	
LD50 Oral Rat	3550 mg/kg (Species: Wistar)
LD50 Dermal Rabbit	> 10000 mg/kg (Species: New Zealand White)
LC50 Inhalation Rat	> 42 mg/l (Exposure time: 1 h)
<b>Sodium hydroxide (1310-73-2)</b>	
LD50 Oral Rat	325 mg/kg
<b>Hydrochloric acid (7647-01-0)</b>	
LD50 Oral	238 mg/kg
LD50 Dermal Rabbit	> 5010 mg/kg

<b>Skin Corrosion/Irritation</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Eye Damage/Irritation</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Respiratory or Skin Sensitisation</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Germ Cell Mutagenicity</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Carcinogenicity</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Reproductive Toxicity</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Specific Target Organ Toxicity (Single Exposure)</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Aspiration Hazard</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Symptoms/Injuries After Inhalation</b>	: Prolonged exposure may cause irritation. May cause exacerbation of asthma.
<b>Symptoms/Injuries After Skin Contact</b>	: Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive individuals.
<b>Symptoms/Injuries After Eye Contact</b>	: May cause slight irritation to eyes.
<b>Symptoms/Injuries After Ingestion</b>	: Ingestion may cause adverse effects.
<b>Chronic Symptoms</b>	: None known.

### 11.2. Information On Other Hazards

Based on available data this substance/the substances in this mixture not listed below do(es) not have endocrine disrupting properties with respect to humans as it does not meet the criteria set out in section A of Regulation (EU) No 2017/2100 and/or the criteria set out in Regulation (EU) 2018/605, or the substance(s) are not required to be disclosed

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

<b>Hazardous To The Aquatic Environment, Short-Term (Acute)</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Hazardous To The Aquatic Environment, Long-Term (Chronic)</b>	: Not classified (Based on available data, the classification criteria are not met)

<b>Phosphoric acid, potassium salt (1:1) (7778-77-0)</b>	
LC50 - Fish	> 100 mg/l (Read across)
<b>Potassium ferricyanide (13746-66-2)</b>	
EC50 - Crustacea	59 mg/l
<b>Potassium cyanide (151-50-8)</b>	
LC50 - Fish [1]	0,04 – 0,046 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 - Crustacea	0,113 mg/l
LC50 - Fish [2]	0,044 – 0,084 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
<b>Calcium chloride (10043-52-4)</b>	
LC50 - Fish	10650 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea	2280000 – 3948000 µg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Sodium nitrite (7632-00-0)</b>	
LC50 - Fish [1]	0,19 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 - Crustacea	15,4 mg/l
LC50 - Fish [2]	0,54 mg/l (Species: Oncorhynchus mykiss)
NOEC chronic - Algae	100 mg/l
<b>1H-Pyrrole (109-97-7)</b>	
LC50 - Fish	197 – 224 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

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<b>Sodium chloride (7647-14-5)</b>	
LC50 - Fish [1]	5560 – 6080 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 - Crustacea [1]	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [2]	340,7 – 469,2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC chronic - Fish	252 mg/l (Species: Pimephales promelas)
<b>Sodium hydroxide (1310-73-2)</b>	
LC50 - Fish	45,4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea	40 mg/l
<b>Hydrochloric acid (7647-01-0)</b>	
LC50 - Fish	7,45 mg/l (Species: Oncorhynchus mykiss - Exposure time: 96h)

### 12.2. Persistence and Degradability

<b>KOVA-Trol® I: (High Abnormal)</b>	
Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

<b>KOVA-Trol® I: (High Abnormal)</b>	
Bioaccumulative Potential	Not established.
<b>Calcium chloride (10043-52-4)</b>	
BCF Fish	No bioaccumulation
<b>Sodium nitrite (7632-00-0)</b>	
Partition coefficient n-octanol/water (Log POW)	-3,7 at 25 °C
<b>1H-Pyrrole (109-97-7)</b>	
Partition coefficient n-octanol/water (Log POW)	0,75
<b>D-erythro-Hex-2-enonic acid, .gamma.-lactone (89-65-6)</b>	
Partition coefficient n-octanol/water (Log POW)	-1,69 at 25 °C (at pH 4)
<b>Sodium chloride (7647-14-5)</b>	
BCF Fish	No bioaccumulation

### 12.4. Mobility in Soil

No additional information available

### 12.5. Results of PBT and vPvB Assessment

Does not contain any PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XVIII

### 12.6. Endocrine Disrupting Properties

Based on available data this substance/the substances in this mixture not listed below do(es) not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100 and/or the criteria set out in Regulation (EU) 2018/605, or the substance(s) are not required to be disclosed.

### 12.7. Other Adverse Effects

Other Information : Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

Product/Packaging Disposal : Dispose of contents/container in accordance with local, regional, national, and international regulations.  
Recommendations :  
Ecology - Waste Materials : Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

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

### 14.1. UN Number or ID Number

Not regulated for transport

### 14.2. UN Proper Shipping Name

Not regulated for transport

### 14.3. Transport Hazard Class

Not regulated for transport

### 14.4. Packing Group

Not regulated for transport

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### 14.5. Environmental Hazards

Not regulated for transport

### 14.6. Special Precautions For User

No additional information available

### 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

##### 15.1.1.1. REACH Annex XVII Information

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	1H-Pyrrole
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	1H-Pyrrole ; Hydrochloric acid
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	1H-Pyrrole

##### 15.1.1.2. REACH Candidate List Information

Contains no substance on the REACH candidate list

##### 15.1.1.3. POP (2019/1021) - Persistent Organic Pollutants Information

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

##### 15.1.1.4. PIC Regulation EU (649/2012) - Export and Import of Hazardous Chemicals Information

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.

##### 15.1.1.5. REACH Annex XIV Information

Contains no REACH Annex XIV substances

##### 15.1.1.6. Substances Depleting the Ozone layer (1005/2009) Information

No additional information available

##### 15.1.1.7. EC Inventory Information

<b>Gentamicin (1403-66-3)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Phosphoric acid, disodium salt (7558-79-4)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Phosphoric acid, potassium salt (1:1) (7778-77-0)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Water (7732-18-5)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl- (60-27-5)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Albumins, blood serum (9048-46-8)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Glucose (50-99-7)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Monopotassium carbonate (298-14-6)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Potassium ferricyanide (13746-66-2)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Potassium cyanide (151-50-8)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Proteinase (9001-92-7)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Calcium chloride (10043-52-4)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Sodium nitrite (7632-00-0)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>1H-Pyrrole (109-97-7)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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**Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[5-methyl-2-(1-methylethyl)-, S,S-dioxide, monosodium salt (62625-21-2)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**Ethanesulfonic acid, 2,2'-[(2,17-diethenyl-1,10,11,19,22,23-hexahydro-3,7,13,18-tetramethyl-1,19-dioxo-21H-biline-8,12-diyl)bis(1-oxo-3,1-propanediyl)imino]]bis-, disodium salt (68683-34-1)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**D-erythro-Hex-2-enonic acid, .gamma.-lactone (89-65-6)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**Sodium chloride (7647-14-5)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**Sodium hydroxide (1310-73-2)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**Hydrochloric acid (7647-01-0)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### 15.1.1.8. Other Information

No additional information available

### 15.1.2. National Regulations

No additional information available

### 15.1.3. International Inventory Lists

**Gentamicin (1403-66-3)**

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)

**Phosphoric acid, disodium salt (7558-79-4)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

**Phosphoric acid, potassium salt (1:1) (7778-77-0)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

**Water (7732-18-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

**4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl- (60-27-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)

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Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Albumins, blood serum (9048-46-8)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Glucose (50-99-7)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Hemoglobins (9008-02-0)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian NDSL (Non-Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)

### **Monopotassium carbonate (298-14-6)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Potassium ferricyanide (13746-66-2)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Potassium cyanide (151-50-8)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the United States SARA Section 302  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Japanese Poisonous and Deleterious Substances Control Law

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Japanese Pollutant Release and Transfer Register Law (PRTR Law)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Proteinase (9001-92-7)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Calcium chloride (10043-52-4)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Ethanedioic acid, diammonium salt, monohydrate (6009-70-7)**

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Japanese Poisonous and Deleterious Substances Control Law  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Sodium nitrite (7632-00-0)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Subject to reporting requirements of United States SARA Section 313  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Japanese Poisonous and Deleterious Substances Control Law  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **1H-Pyrrole (109-97-7)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[5-methyl-2-(1-methylethyl)-, S,S-dioxide, monosodium salt (62625-21-2)**



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Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Ethanesulfonic acid, 2,2'-[(2,17-diethenyl-1,10,11,19,22,23-hexahydro-3,7,13,18-tetramethyl-1,19-dioxo-21H-biline-8,12-diyl)bis[(1-oxo-3,1-propanediyl)imino]]bis-, disodium salt (68683-34-1)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Inactive  
Listed on the Canadian NDSL (Non-Domestic Substances List)

### **Lithium acetoacetate (3483-11-2)**

Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)

### **D-erythro-Hex-2-enonic acid, .gamma.-lactone (89-65-6)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Sodium chloride (7647-14-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Sodium hydroxide (1310-73-2)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Japanese Poisonous and Deleterious Substances Control Law  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### **Hydrochloric acid (7647-01-0)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
Listed on the United States SARA Section 302  
Subject to reporting requirements of United States SARA Section 313  
Listed on EPA Hazardous Air Pollutant (HAPS)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Japanese Poisonous and Deleterious Substances Control Law  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

## SECTION 16: OTHER INFORMATION

**Date of Preparation or Latest Revision** : 12/05/2023

**Data Sources** : Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.

**Other Information** : According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Full Text of H-statements:

Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
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
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Ox. Sol. 3	Oxidising Solids, Category 3
Press. Gas	Gases under pressure
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

### Indication of Changes

No additional information available

### Abbreviations and Acronyms

ACGIH – American Conference of Governmental Industrial Hygienists  
ADN – European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways

NDS - Najwyższe Dopuszczalne Steżenie  
NDSCh - Najwyższe Dopuszczalne Steżenie Chwilowe  
NDSP - Najwyższe Dopuszczalne Steżenie Pulapowe

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## Safety Data Sheet

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ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road  
ATE - Acute Toxicity Estimate  
BCF - Bioconcentration Factor  
BEI - Biological Exposure Indices (BEI)  
BOD - Biochemical Oxygen Demand  
CAS No. - Chemical Abstracts Service Number  
CLP - Classification, Labeling and Packaging Regulation (EC) No 1272/2008  
COD - Chemical Oxygen Demand  
EC - European Community  
EC50 - Median Effective Concentration  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Chemical Substances  
EmS-No. (Fire) - IMDG Emergency Schedule Fire  
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage  
EU - European Union  
ERC50 - EC50 in Terms of Reduction Growth Rate  
GHS - Globally Harmonized System of Classification and Labeling of Chemicals  
IARC - International Agency for Research on Cancer  
IATA - International Air Transport Association  
IBC Code - International Bulk Chemical Code  
IMDG - International Maritime Dangerous Goods  
IPRV - Ilgalaikio Poveikio Ribinis Dydis  
IOELV - Indicative Occupational Exposure Limit Value  
LC50 - Median Lethal Concentration  
LD50 - Median Lethal Dose  
LOAEL - Lowest Observed Adverse Effect Level  
LOEC - Lowest-Observed-Effect Concentration  
Log Koc - Soil Organic Carbon-water Partitioning Coefficient  
Log Kow - Octanol/water Partition Coefficient  
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water  
MAK - Maximum Workplace Concentration/Maximum Permissible Concentration  
MARPOL - International Convention for the Prevention of Pollution

NOAEL - No-Observed Adverse Effect Level  
NOEC - No-Observed Effect Concentration  
NRD - Nevirsytinas Ribinis Dydis  
NTP - National Toxicology Program  
OEL - Occupational Exposure Limits  
PBT - Persistent, Bioaccumulative and Toxic  
PEL - Permissible Exposure Limit  
pH - Potential Hydrogen  
REACH - Registration, Evaluation, Authorisation, and Restriction of Chemicals  
RID - Regulations Concerning the International Carriage of Dangerous Goods by Rail  
SADT - Self Accelerating Decomposition Temperature  
SDS - Safety Data Sheet  
STEL - Short Term Exposure Limit  
STOT - Specific Target Organ Toxicity  
TA-Luft - Technische Anleitung zur Reinhaltung der Luft  
TEL TRK - Technical Guidance Concentrations  
ThOD - Theoretical Oxygen Demand  
TLM - Median Tolerance Limit  
TLV - Threshold Limit Value  
TPRD - Trumpalaikio Poveikio Ribinis Dydis  
TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern  
TRGS 552 - Technische Regeln für Gefahrstoffe - N-Nitrosamine  
TRGS 900 - Technische Regel für Gefahrstoffe 900 - Arbeitsplatzgrenzwerte  
TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte  
TSCA - Toxic Substances Control Act  
TWA - Time Weighted Average  
VOC - Volatile Organic Compounds  
VLA-EC - Valor Límite Ambiental Exposición de Corta Duración  
VLA-ED - Valor Límite Ambiental Exposición Diaria  
VLE - Valeur Limite D'exposition  
VME - Valeur Limite De Moyenne Exposition  
vPvB - Very Persistent and Very Bioaccumulative  
WEL - Workplace Exposure Limit  
WGK - Wassergefährdungsklasse

### Limit Value Legal Basis\*

\*Includes the below and any related regulations/provisions, and subsequent amendments

**EU - 2019/1831 EU in accord. with 98/24/EC** - Directive 2019/1831/EU of October 24, 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 2000/39/EC.

**EU - 2019/1243/EU, and 98/24/EC** - Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work and amendment Regulation (EU) 2019/1243.

**Austria - BGBl. II Nr. 254/2018** - Ordinance on Limit Values for Workplace Substances and on Carcinogens from the Federal Ministry of Economics and Labour, Published in 2003, Appendix 1: Substance List, Published through: Ministry of Economics and Labour of the Republic of Austria amended through the Government Gazette II (BGBl. II) No 119/2004) & BGBl. II No. 242/2006, BGBl. II No. 243/2007, lastly changed through BGBl. I Nr. 51/2011), BGBl. II Nr. 186/2015, BGBl. II Nr. 288/2017 amended by BGBl. II Nr. 254/2018.

**Austria - BLV BGBl. II Nr. 254/2018** - Ordinance on health monitoring at the workplace 2008, published through BGBl. II Nr. 224/2007 by Austria Minister for Labor and Social Affairs, Lastly changed through BGBl. II Nr. 254/2018

**Belgium - Royal Decree 21/01/2020** - Royal decree amending title 1 relating to chemical agents in Book VI of the code of well-being at work, with regard to the list of limit values of exposure to chemical agents and title 2 relating to carcinogens, mutagens and reprotoxics of Book VI of the code of well-being at work (1)

**Bulgaria - Reg. No. 13/10** -

Regulation No. 13 of December 30, 2003 on the Protection of Workers from Hazards Related to Exposure to Chemical Agents at Work Labor Code, Annex No.1 Limit values of chemical agents in the air of the working environment, and Annex № 2 Biological limit values of chemical agents and their metabolites (bio markers of exposure) or bio markers of effect Amended by: 71/2006, 67/2007, 2/2012, 46/2015, 73/2018, 5/2020), and Regulation No.10 of September 26, 2003 on the Protection of Workers from the Risks Associated with Exposure to Carcinogens and Mutagens at Work Annex No.1 Occupational Exposure Limits, Amended by: 8/2004, 46/2015, 5/2020

**Greece - PWHSE** - Occupational Exposure Limits - Protection of workers' health and safety from exposure to certain chemical substances during the workday, (latest amendment 82/2018) and Occupation Exposure Limits - Protection of workers' health and safety from exposure to certain carcinogenic and mutagenic chemical substances (latest amendment 26/2020), and Presidential Decree 212/2006 - Protection of workers that are exposed to asbestos.

**Hungary - Decree 05/2020** - 5/2020. (II. 6.) ITM decree on the protection of the health and safety of workers from the risks related to chemical agents

**Ireland - 2020 COP** - 2020 Code of Practice for the Chemical Agents Regulations, Schedule 1

**Italy - Decree 81** - Title IX, Annex XLIII and XXXVIII, Professional Exposure Limits and Annex XXXIX Mandatory Biological Limit Values and Health Monitoring, Article 1, Law 123 of August 3, 2007, Legislative Decree 81 of April 9, 2008, Last amended: January 2020

**Italy - IMDFN1** - Ministerial Decree of August 20, 1999 Final Note (1)

**Latvia - Reg. No. 325** - Cabinet of Ministers Regulation No. 325 - Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces, Amended by Cabinet of Ministers Regulation No. 92, 163, 407 and No. 11.

**Lithuania - HN 23:2011** - Lithuanian Hygiene Standard HN 23:2011 Occupational Exposure Limit Values, Amended by Order V-695/A1-272.

**Luxembourg - A-N 684** - Grand-Ducal Regulation of 20 July 2018 amending the Grand-Ducal Regulation of 14 November 2016 concerning the protection of the safety and health of employees against the risks associated with chemical agents in the workplace. Official journal of the Grand-Duke of Luxembourg, A-N°684 of 2018

**Malta - MOSHAA Ch. 424** - Malta Occupational Health and Safety Authority Act: Chapter 424 as amended by: Legal Notice 353, 53, 198, and 57.

**Netherlands- OWCRLV** - Occupational Working Conditions Regulation, Limit Values for substances harmful to health, Annex XVIII, Updated from August 1, 2020.

**Norway - FOR-2020-04-060695** - Regulations concerning action and limit

# KOVA-Trol® I: (High Abnormal)

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**Croatia - OG No. 91/2018** - Regulation on the Protection of Workers from Exposure to Hazardous Chemicals at Work, the Limit Values of Exposure and the Biological Limit Values. Official Gazette No. 91 of October 12, 2018

**Cyprus - KDP 16/2019** - Government of Cyprus Cabinet of Ministers Regulation 268/2001 - Safety and Health in the Working Environment (Chemical Substances) Article 38, As amended by Regulation 16/2019 and Cabinet of Ministers Regulation 153/2001 - Safety and Health in the Working Environment (Chemical Substances-Carcinogens), as amended by Regulation 493/2004 - Safety and Health in the Working Environment (Chemical Substances - Carcinogens) AND Law 47(I) 2000 - Occupational Health and Safety (Asbestos), as amended by Decree 316/2006.

**Czech Republic - Reg. 41/2020** - Regulation 41/2020 amending Regulation 361/2007 of Coll. establishing Occupation Exposure Limits as amended

**Czech Republic - Decree No. 107/2013** - Decree No. 107/2013 Coll., amending Decree No. 432/2003 Coll., laying down the conditions for the application of the work into categories, limit values for the parameters of biological exposure tests, collection of biological material conditions for the implementation of biological exposure tests and requirements for reporting work with asbestos and biological agents

**Denmark - BEK No. 698 of 28/05/2020** - Order on Limit Values for Substances and Materials, The Statutory Order No. 507 of May 17, 2011, Appendix 1 - Limits for air pollution, etc. and Appendix 3 - Biological Exposure Values, Amended by: No. 986 of October 11, 2012, No. 655 of May 31, 2018, No. 1458 December 13, 2019, No. 698 of May 28, 2020

**Estonia - Regulation No. 105** - Health and Safety Requirements for the Use of Dangerous Chemicals and Materials Containing Them and Occupational Exposure Limits to Chemical Agents

Government of the Republic, Regulation No. 105 of 20 March 2001, Amended 17 October 2019, and 17 January, 2020.

**Finland - HTP-ARVOT 2020** - Concentrations Known to be Hazardous, 654/2020 OEL values 2020 Publications of Ministry of Social Affairs and Health 2020:24 Annexes1, 2 and 3.

**France - INRS ED 984** - Occupational Exposure Limit Values to Chemical Agents in France Published 2016 by the INRS National Institute of Research and Safety Health and safety of work, revised, updated by: Decree 2016-344, JORF No 0119, and Decree 2019-1487.

**France - Decree 2009-1570** - Decree 2009-1570 of December 15, 2009, relative to the control of chemical risk on workplaces.

**Germany - TRGS 900** - Occupational Exposure Limits, Technical Rules for Dangerous Substances, latest amendment March, 2020

**Germany - TRGS 903** - Biological Threshold Limits (BGW-Values), Technical Rules for Dangerous Substances, latest amendment March, 2020

**Gibraltar - LN. 2018/131** - Factories (Control of Chemical Agents at Work) Regulations 2003 LN. 2003/035, amended by LN. 2008/035, LN. 2008/050, LN. 2012/021, LN. 2015/143, LN. 2018/181.

values for physical and chemical agents in the working environment and classified biological agents, FOR-2011-12-06-1358, Updated by: FOR-2020-04-06-695, FOR-2020-03-23-402, FOR-2018-12-20-2186, FOR-2018-08-21-1255, FOR-2017-12-20-2353.

**Poland - Dz. U. 2020 Nr. 61** - Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the Highest Allowable Concentrations and Intensities of Factors Harmful to Health in the Work Environment Dz.U. 2018 Nr. 1286 of June 12, 2018, Annex 1 - List of values of the highest permissible chemical concentrations and dust factors harmful to health in the work environment, amended by: Dz. U. 2020 Nr. 61.

**Portugal - Portuguese Norm NP 1796:2014** - Occupational exposure limits and biological exposure indices to chemical agents. Table 1 - Occupational exposure limits and biological exposure indices to chemical agents (OELs), Law Decree 35/2020.

**Romania - Gov. Dec. No 1.218** - Governmental Decision No. 1.218 from 06/09/2006 on the minimum health and safety requirements for protection of workers from the risks related to exposure to chemical agents, Annex No. 1 Mandatory National Occupational Exposure Limit Values for Chemical Agents. Amended by Decision no. 157, 584, 359, and 1.

**Slovakia - Gov. Decree 33/2018** - Government Decree of Slovak Republic 33/2018 on January 17, 2018 amending Government Decree of Slovak Republic 355/2006 about protection of health of employees when working with chemical agents

**Slovenia - No. 79/19** - Regulation for protection of workers against risks related to carcinogenic or mutagenic substances exposure. Annex III - Classification and binding levels of carcinogenic or mutagenic substances for occupational exposure. The Official Journal of the Republic of Slovenia, No. 101/2005. Amended by 38/15, 79/19. Regulation for protection of workers against risks related to exposure to chemical substances at the workplace. Republic of Slovenia, No. 100/2001. Annex I - List of Binding Occupational Exposure Limit Values. Amended by 39/05, 53/07, 102/10, 38/15, 78/18, 78/19

**Spain - AFS 2018:1** - NATIONAL INSTITUTE FOR HEALTH AND SAFETY AT WORK. Occupational exposure limits for chemical agents in Spain. Tables 1 and 3. Latest edition Feb. 2019

**Sweden - AFS 2018:1** - Statute Book of the Swedish Work Environment Authority, AFS 2018:1 The Swedish Work Environment Authority's Ordinance and General Guidance on Hygienic Limit Values

**Switzerland - OLVSNAIF** - Occupational Limit Values 2020 Swiss National Accident Insurance Fund. List of Biological Limit Values (BAT-Werte) and List of MAK Values.

*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.*

EU GHS SDS (2020/878)