

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

1.1. Product Identifier

Product Form	: Mixture
Product Name	: KOVA Liqua-Trol® Level I Abnormal (120 mL and 15 mL) KOVA® poc Abnormal (25mL, 15mL and 5mL)
Synonyms	: 87112 KOVA Liqua-Trol® Level I Abnormal 87176 KOVA Liqua-Trol® Level I Abnormal w/ microscopics 87177 KOVA Liqua-Trol® Level I Abnormal w/ microscopics 87112E KOVA Liqua-Trol® Level I Abnormal 87176E KOVA Liqua-Trol® Level I Abnormal w/ microscopics 87177E KOVA Liqua-Trol® Level I Abnormal w/ microscopics 88105 KOVA® poc Dropper Abnormal 5mL 88115 KOVA® poc DipTube Abnormal w/ microscopics 15mL 88125 KOVA® poc Dropper Abnormal 25mL 88205 KOVA® poc Dropper Abnormal 5mL

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

1.2.1. Relevant Identified Uses

Use of the Substance/Mixture : In vitro diagnostic

1.2.2. Uses Advised Against

Uses Advised Against : For in vitro diagnostic use only

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

1.4. Emergency Telephone Number

Emergency Number : 1-714-902-1700 (8:00 a.m. - 5:00 p.m., PST, Monday - Friday)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

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

Skin Sens. 1 H317

Full text of hazard classes, H-statements: see section 16

2.2. Label Elements

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

Hazard Pictograms (CLP)



Signal Word (CLP)

: Warning

Hazard Statements (CLP)

: H317 - May cause an allergic skin reaction.

Precautionary Statements (CLP)

: P261 - Avoid breathing mist, spray, vapours.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear eye protection, protective clothing, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

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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

Other Hazards Not Contributing to the Classification : Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

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

3.2. Mixtures

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	91,055422	Not classified
Non-hazardous components	(CAS-No.) Not applicable	2,550975	Not classified
1-Piperazineethanesulfonic acid, 4-(2-hydroxyethyl)-, monosodium salt	(CAS-No.) 75277-39-3 (EC-No.) 278-169-7	2,38	Not classified
Potassium chloride	(CAS-No.) 7447-40-7 (EC-No.) 231-211-8	0,9	Not classified
Sodium chloride	(CAS-No.) 7647-14-5 (EC-No.) 231-598-3	0,9	Not classified
Glucose	(CAS-No.) 50-99-7 (EC-No.) 200-075-1	0,6	Not classified
Albumins, blood serum	(CAS-No.) 9048-46-8 (EC-No.) 232-936-2	0,55	Not classified
Methyl acetoacetate, monosodium salt	(CAS-No.) 34284-28-1 (EC-No.) 251-918-5	0,2	Skin Irrit. 2, H315 Eye Irrit. 2, H319
4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl-	(CAS-No.) 60-27-5 (EC-No.) 200-466-7	0,2	Not classified
Disodium 6,6'-dihydroxy-3,3'-(4,5,6,7-tetrabromo-1,3-dihydro-3-oxoisobenzofuran-1-ylidene)dibenzenesulphonate	(CAS-No.) 123359-42-2	0,165	Resp. Sens. 1, H334 Skin Sens. 1, H317
Hydrochloric acid	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-00-2	< 0,1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 2, H411
Sodium hydroxide	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	< 0,1	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Esterase, carboxyl	(CAS-No.) 9016-18-6 (EC-No.) 232-773-7	0,071	Resp. Sens. 1, H334
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
Monopotassium carbonate	(CAS-No.) 298-14-6 (EC-No.) 206-059-0;209-529-3	0,008	Not classified
Sodium nitrite	(CAS-No.) 7632-00-0 (EC-No.) 231-555-9 (EC Index-No.) 007-010-00-4	0,0075	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Eye Irrit. 2, H319 Aquatic Acute 1, H400
Phosphoric acid, disodium salt	(CAS-No.) 7558-79-4 (EC-No.) 231-448-7	0,0075	Not classified
Magnesium nitrate	(CAS-No.) 10377-60-3 (EC-No.) 233-826-7	< 0,0060126	Ox. Sol. 3, H272
1H-Pyrrole	(CAS-No.) 109-97-7 (EC-No.) 203-724-7	0,005	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301

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Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008
			Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318
1-Naphthalenesulfonic acid, 8-(phenylamino)-, monoammonium salt	(CAS-No.) 28836-03-5 (EC-No.) 249-265-6	0,005	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Phosphoric acid, potassium salt (1:1)	(CAS-No.) 7778-77-0 (EC-No.) 231-913-4	0,005	Not classified
3(2H)-Isothiazolone, 5-chloro-2-methyl-	(CAS-No.) 26172-55-4 (EC-No.) 247-500-7	< 0,0030063	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3(2H)-Isothiazolone, 2-methyl-	(CAS-No.) 2682-20-4 (EC-No.) 220-239-6 (EC Index-No.) 613-326-00-9	< 0,0030063	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
N-(1-Naphthyl)ethylenediamine dihydrochloride	(CAS-No.) 1465-25-4 (EC-No.) 215-981-2	0,003	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Ethanedioic acid, diammonium salt, monohydrate	(CAS-No.) 6009-70-7 (EC-No.) 214-202-3;611-933-3	0,0018	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319
Potassium ferricyanide	(CAS-No.) 13746-66-2 (EC-No.) 237-323-3	0,0016	Aquatic Chronic 3, H412
Hemoglobins	(CAS-No.) 9008-02-0	0,0015	Not classified
Potassium cyanide	(CAS-No.) 151-50-8 (EC-No.) 205-792-3	0,0004	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
Gentamicin	(CAS-No.) 1403-66-3 (EC-No.) 215-765-8	0,0004	Not classified
Calcium chloride	(CAS-No.) 10043-52-4 (EC-No.) 233-140-8 (EC Index-No.) 017-013-00-2	0,000325	Eye Irrit. 2, H319
Calcium hydroxide phosphate (Ca5(OH)(PO4)3)	(CAS-No.) 12167-74-7 (EC-No.) 235-330-6	0,000015	Not classified

Specific Concentration Limits:

Name	Product Identifier	Specific Concentration Limits
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
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
3(2H)-Isothiazolone, 5-chloro-2-methyl-	(CAS-No.) 26172-55-4 (EC-No.) 247-500-7	(0,0002 ≤ C < 0,002) EUH208 (0,002 ≤ C < 100) Skin Sens. 1A, H317

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Specific Concentration Limits:

Name	Product Identifier	Specific Concentration Limits
		(0,06 ≤C < 0,6) Skin Irrit. 2, H315 (0,06 ≤C < 0,6) Eye Irrit. 2, H319 (0,5 ≤C < 100) EUH071 (0,5 ≤C < 100) Skin Corr. 1B, H314 (0,6 ≤C < 1,5) Skin Corr. 1C, H314 (0,6 ≤C < 100) Eye Dam. 1, H318
3(2H)-Isothiazolone, 2-methyl-	(CAS-No.) 2682-20-4 (EC-No.) 220-239-6 (EC Index-No.) 613-326-00-9	(0,0002 ≤C < 0,002) EUH208 (0,002 ≤C < 100) Skin Sens. 1A, H317 (0,06 ≤C < 0,6) Skin Irrit. 2, H315 (0,06 ≤C < 0,6) Eye Irrit. 2, H319 (0,5 ≤C < 100) EUH071 (0,6 ≤C < 100) Eye Dam. 1, H318 (0,6 ≤C < 1,5) Skin Corr. 1C, H314 (1,5 ≤C < 100) Skin Corr. 1B, 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** : 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. Wash affected area with soap and water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists.
- First-Aid Measures After Eye Contact** : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for at least 15 minutes. Obtain medical attention.
- 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** : Skin sensitisation.
- Symptoms/Effects After Inhalation** : Prolonged exposure may cause irritation.
- Symptoms/Effects After Skin Contact** : May cause an allergic skin reaction.
- 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 (CO₂), 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, CO₂). Chlorine compounds. Metal oxides. Nitrogen oxides. Sodium oxides. Sulphur 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.
- Protection During Firefighting** : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

- General Measures** : Do not get in eyes, on skin, or on clothing. Avoid breathing (vapour, mist, spray).

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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. 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.

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.
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

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.

Potassium chloride (7447-40-7)		
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	5 mg/m ³
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	5 mg/m ³
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	5 mg/m ³
Monopotassium carbonate (298-14-6)		
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	5 mg/m ³
Potassium ferricyanide (13746-66-2)		
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	4 mg/m ³
Potassium cyanide (151-50-8)		
EU	IOELV TWA (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	1 mg/m ³
EU	IOELV STEL (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	5 mg/m ³
EU	Remark	Possibility of significant uptake through the skin
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	1 mg/m ³ (inhalable fraction (Cyanide ion))
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	5 mg/m ³ (inhalable fraction (Cyanide anion))
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 ³
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	5 mg/m ³

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Potassium cyanide (151-50-8)		
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 ³
Bulgaria	OEL STEL (Legal Basis:Reg. No. 13/10)	5 mg/m ³
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	1 mg/m ³
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	5 mg/m ³
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 ³
Cyprus	OEL STEL (Legal Basis:KDP 16/2019)	5 mg/m ³ (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 ³
Denmark	OEL Ceiling (Legal Basis:BEK No. 698 of 28/05/2020)	5 mg/m ³ (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 ³
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	5 mg/m ³
Estonia	OEL Chemical Category (Legal Basis:Regulation No. 105)	Skin notation
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	1 mg/m ³ (Cyanides)
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	5 mg/m ³
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 ³ (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 ³ (as Cyanide)
Gibraltar	OEL STEL (Legal Basis:LN. 2018/181)	5 mg/m ³ (as Cyanide)
Gibraltar	OEL Chemical Category (Legal Basis:LN. 2018/181)	Skin notation as Cyanide
Greece	OEL TWA (Legal Basis:PWHS)	1 mg/m ³
Greece	OEL STEL (Legal Basis:PWHS)	5 mg/m ³
Greece	OEL Chemical Category (Legal Basis:PWHS)	skin - potential for cutaneous absorption as cyanide
Ireland	OEL TWA (Legal Basis:2020 COP)	1 mg/m ³
Ireland	OEL STEL (Legal Basis:2020 COP)	5 mg/m ³
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 ³ (Hydrogen cyanide and cyanide salts)
Italy	OEL TWA (Legal Basis:Decree 81)	1 mg/m ³
Italy	OEL STEL (Legal Basis:Decree 81)	5 mg/m ³
Italy	OEL Chemical Category (Legal Basis:Decree 81)	skin - potential for cutaneous absorption
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	1 mg/m ³
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 ³
Lithuania	OEL Ceiling (Legal Basis:HN 23:2011)	5 mg/m ³
Lithuania	OEL Chemical Category (Legal Basis:HN 23:2011)	Skin notation
Luxembourg	OEL TWA (Legal Basis:A-N 684)	1 mg/m ³ (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 ³
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	5 mg/m ³ (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 ³
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 ³ (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 ³ (inhalable fraction)
Poland	OEL Ceiling (Legal Basis:Dz. U. 2020 Nr. 61)	5 mg/m ³ (Hydrogen cyanide and cyanides)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	1 mg/m ³ (as cyanide)
Portugal	OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014)	5 mg/m ³ (indicative limit value)

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Potassium cyanide (151-50-8)		
Portugal	OEL Ceiling (Legal Basis:Portuguese Norm NP 1796:2014)	5 mg/m ³
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 ³
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	1 mg/m ³
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 ³
Slovakia	OEL STEL (Legal Basis:Gov. Decree 33/2018)	5 mg/m ³
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 ³
Slovenia	OEL STEL (Legal Basis:No. 79/19)	5 mg/m ³
Slovenia	OEL Chemical Category (Legal Basis:No. 79/19)	Potential for cutaneous absorption as CN
Spain	OEL TWA (Legal Basis:OELCAIS)	1 mg/m ³
Spain	OEL STEL (Legal Basis:OELCAIS)	5 mg/m ³
Spain	OEL Chemical Category (Legal Basis:OELCAIS)	skin - potential for cutaneous absorption
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	1 mg/m ³ (inhalable fraction (Cyanides))
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	4 mg/m ³ (inhalable fraction (Cyanides))
Sweden	OEL Chemical Category (Legal Basis:AFS 2018:1)	Skin notation
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	5 mg/m ³ (inhalable dust)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	5 mg/m ³ (including Cyanide-inhalable dust)
Switzerland	OEL Chemical Category (Legal Basis:OLVSNAIF)	Skin notation, Category 2 reproductive toxin
Sodium nitrite (7632-00-0)		
Lithuania	OEL Ceiling (Legal Basis:HN 23:2011)	0,1 mg/m ³
3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	0,05 mg/m ³
Austria	OEL Chemical Category (Legal Basis:BGBl. II Nr. 254/2018)	Skin sensitizer
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	0,4 mg/m ³ (inhalable dust)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	0,2 mg/m ³ (inhalable dust)
Switzerland	OEL Chemical Category (Legal Basis:OLVSNAIF)	Sensitizer
3(2H)-Isothiazolone, 2-methyl- (2682-20-4)		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	0,05 mg/m ³ (5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-dihydroisothiazol-3-one mixture in ratio 3:1)
Austria	OEL Chemical Category (Legal Basis:BGBl. II Nr. 254/2018)	Skin sensitizer
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	0,4 mg/m ³ (inhalable dust)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	0,2 mg/m ³ (inhalable dust)
Switzerland	OEL Chemical Category (Legal Basis:OLVSNAIF)	Sensitizer
Hydrochloric acid (7647-01-0)		
EU	IOELV TWA (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	8 mg/m ³
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 ³
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 ³
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 ³
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 ³
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 ³
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	10 ppm
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	8 mg/m ³
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	5 ppm
Bulgaria	OEL STEL (Legal Basis:Reg. No. 13/10)	15 mg/m ³
Bulgaria	OEL STEL (Legal Basis:Reg. No. 13/10)	10 ppm
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	8 mg/m ³

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Hydrochloric acid (7647-01-0)		
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	5 ppm
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	15 mg/m ³
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	10 ppm
Cyprus	OEL TWA (Legal Basis:KDP 16/2019)	8 mg/m ³
Cyprus	OEL TWA (Legal Basis:KDP 16/2019)	5 ppm
Cyprus	OEL STEL (Legal Basis:KDP 16/2019)	15 mg/m ³
Cyprus	OEL STEL (Legal Basis:KDP 16/2019)	10 ppm
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	8 mg/m ³
Denmark	OEL Ceiling (Legal Basis:BEK No. 698 of 28/05/2020)	8 mg/m ³
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 ³
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	5 ppm
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	15 mg/m ³
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	10 ppm
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	7,6 mg/m ³ (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 ³ (restrictive limit)
France	OEL STEL (Legal Basis:INRS ED 984)	5 ppm (restrictive limit)
Germany	OEL TWA (Legal Basis:TRGS 900)	3 mg/m ³ (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 ³
Gibraltar	OEL TWA (Legal Basis:LN. 2018/181)	5 ppm
Gibraltar	OEL STEL (Legal Basis:LN. 2018/181)	15 mg/m ³
Gibraltar	OEL STEL (Legal Basis:LN. 2018/181)	10 ppm
Greece	OEL TWA (Legal Basis:PWHSE)	7 mg/m ³
Greece	OEL TWA (Legal Basis:PWHSE)	5 ppm
Greece	OEL STEL (Legal Basis:PWHSE)	7 mg/m ³
Greece	OEL STEL (Legal Basis:PWHSE)	5 ppm
Hungary	OEL TWA (Legal Basis:Decree No. 05/2020)	8 mg/m ³
Hungary	OEL STEL (Legal Basis:Decree No. 05/2020)	16 mg/m ³
Ireland	OEL TWA (Legal Basis:2020 COP)	8 mg/m ³
Ireland	OEL TWA (Legal Basis:2020 COP)	5 ppm
Ireland	OEL STEL (Legal Basis:2020 COP)	15 mg/m ³
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 ³
Italy	OEL TWA (Legal Basis:Decree 81)	5 ppm
Italy	OEL STEL (Legal Basis:Decree 81)	15 mg/m ³
Italy	OEL STEL (Legal Basis:Decree 81)	10 ppm
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	8 mg/m ³
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	5 ppm
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	8 mg/m ³
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	5 ppm
Lithuania	OEL STEL (Legal Basis:HN 23:2011)	15 mg/m ³
Lithuania	OEL STEL (Legal Basis:A-N 684)	10 ppm
Luxembourg	OEL TWA (Legal Basis:A-N 684)	8 mg/m ³
Luxembourg	OEL TWA (Legal Basis:A-N 684)	5 ppm
Luxembourg	OEL STEL (Legal Basis:A-N 684)	15 mg/m ³
Luxembourg	OEL STEL (Legal Basis:A-N 684)	10 ppm
Malta	OEL TWA (Legal Basis:MOHSAA Ch. 424)	8 mg/m ³
Malta	OEL TWA (Legal Basis:MOHSAA Ch. 424)	5 ppm
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	15 mg/m ³
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	10 ppm

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Hydrochloric acid (7647-01-0)		
Netherlands	OEL TWA (Legal Basis:OWCRLV)	8 mg/m ³
Netherlands	OEL STEL (Legal Basis:OWCRLV)	15 mg/m ³
Norway	OEL Ceiling (Legal Basis:FOR-2020-04-06-695)	7 mg/m ³
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 ³
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	10 mg/m ³
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	8 mg/m ³ (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 ³ (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 ³
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 ³
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	10 ppm
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	8 mg/m ³
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	5 ppm
Slovakia	OEL STEL (Legal Basis:Gov. Decree 33/2018)	15 mg/m ³
Slovenia	OEL TWA (Legal Basis:No. 79/19)	8 mg/m ³ (anhydrous)
Slovenia	OEL TWA (Legal Basis:No. 79/19)	5 ppm (anhydrous)
Slovenia	OEL STEL (Legal Basis:No. 79/19)	15 mg/m ³ (anhydrous)
Slovenia	OEL STEL (Legal Basis:No. 79/19)	10 ppm (anhydrous)
Spain	OEL TWA (Legal Basis:OELCAIS)	7,6 mg/m ³ (indicative limit value)
Spain	OEL TWA (Legal Basis:OELCAIS)	5 ppm (indicative limit value)
Spain	OEL STEL (Legal Basis:OELCAIS)	15 mg/m ³
Spain	OEL STEL (Legal Basis:OELCAIS)	10 ppm
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	3 mg/m ³
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	2 ppm
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	6 mg/m ³
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	4 ppm
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	6 mg/m ³
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	4 ppm
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	3 mg/m ³
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	2 ppm
Sodium hydroxide (1310-73-2)		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	2 mg/m ³ (inhalable fraction)
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	4 mg/m ³ (inhalable fraction)
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	2 mg/m ³ (alkaline aerosols)
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	2 mg/m ³
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	1 mg/m ³
Denmark	OEL Ceiling (Legal Basis:BEK No. 698 of 28/05/2020)	2 mg/m ³
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	1 mg/m ³
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	2 mg/m ³
Finland	OEL Ceiling (Legal Basis:HTP-ARVOT 2020)	2 mg/m ³
France	OEL TWA (Legal Basis:INRS ED 984)	2 mg/m ³
Greece	OEL TWA (Legal Basis:PWHSE)	2 mg/m ³
Greece	OEL STEL (Legal Basis:PWHSE)	2 mg/m ³
Hungary	OEL TWA (Legal Basis:Decree No. 05/2020)	1 mg/m ³
Hungary	OEL STEL (Legal Basis:Decree No. 05/2020)	2 mg/m ³
Ireland	OEL STEL (Legal Basis:2020 COP)	2 mg/m ³
USA ACGIH	OEL Ceiling (Legal Basis:IMDFN1)	2 mg/m ³
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	0,5 mg/m ³

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Sodium hydroxide (1310-73-2)		
Lithuania	OEL Ceiling (Legal Basis:HN 23:2011)	2 mg/m ³
Norway	OEL Ceiling (Legal Basis:FOR-2020-04-06-695)	2 mg/m ³
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	0,5 mg/m ³
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	1 mg/m ³
Portugal	OEL Ceiling (Legal Basis:Portuguese Norm NP 1796:2014)	2 mg/m ³
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	2 mg/m ³
Spain	OEL STEL (Legal Basis:OELCAIS)	2 mg/m ³
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	1 mg/m ³ (inhalable fraction)
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	2 mg/m ³ (inhalable fraction)
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	2 mg/m ³ (inhalable dust)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	2 mg/m ³ (inhalable dust)
Gentamicin (1403-66-3)		
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	0,1 mg/m ³
Bulgaria	OEL STEL (Legal Basis:Reg. No. 13/10)	0,6 mg/m ³
Calcium chloride (10043-52-4)		
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	5 mg/m ³
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	2 mg/m ³
Sodium chloride (7647-14-5)		
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	5 mg/m ³
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	5 mg/m ³

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.

Environmental Exposure Controls

: Avoid release to the environment.

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
Colour	: No data available
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

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Boiling Point	: ≈ 100 °C (212 °F)
Flash Point	: Not applicable
Auto-Ignition Temperature	: Not applicable
Decomposition Temperature	: No data available
Flammability	: Not flammable
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.

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)

Potassium chloride (7447-40-7)	
LD50 Oral Rat	3020 mg/kg (Species: Wistar)
Glucose (50-99-7)	
LD50 Oral Rat	25800 mg/kg
Monopotassium carbonate (298-14-6)	
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)
Potassium cyanide (151-50-8)	
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

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Sodium nitrite (7632-00-0)	
LD50 Oral Rat	85 mg/kg
LD50 Oral	77 mg/kg
LC50 Inhalation Rat	5,5 mg/l/4h
1H-Pyrrole (109-97-7)	
ATE CLP (Oral)	100 mg/kg bodyweight
ATE CLP (Inhalation)	1,50 mg/l/4h
Magnesium nitrate (10377-60-3)	
LD50 Oral Rat	5440 mg/kg
3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)	
LD50 Oral Rat	481 mg/kg
LC50 Inhalation Rat	1,23 mg/l/4h
ATE CLP (Dermal)	300 mg/kg bodyweight
3(2H)-Isothiazolone, 2-methyl- (2682-20-4)	
LD50 Oral Rat	120 mg/kg
LD50 Dermal Rabbit	242 mg/kg
LC50 Inhalation Rat	0,11 mg/l/4h
Calcium hydroxide phosphate (Ca5(OH)(PO4)3) (12167-74-7)	
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 2,35 mg/l (Exposure time: 170 min)
Hydrochloric acid (7647-01-0)	
LD50 Oral	238 mg/kg
LD50 Dermal Rabbit	> 5010 mg/kg
Sodium hydroxide (1310-73-2)	
LD50 Oral Rat	325 mg/kg
Gentamicin (1403-66-3)	
LD50 Oral Rat	6600 mg/kg
Phosphoric acid, disodium salt (7558-79-4)	
LD50 Oral Rat	17 g/kg
LD50 Dermal Rat	> 5000 mg/kg (50% solution)
Phosphoric acid, potassium salt (1:1) (7778-77-0)	
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)
Calcium chloride (10043-52-4)	
LD50 Oral Rat	2301 mg/kg
LD50 Oral	1940 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
Ethanedioic acid, diammonium salt, monohydrate (6009-70-7)	
ATE CLP (Oral)	500 mg/kg bodyweight
ATE CLP (Dermal)	1100 mg/kg bodyweight
Sodium chloride (7647-14-5)	
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)

Skin Corrosion/Irritation	: Not classified (Based on available data, the classification criteria are not met)
Eye Damage/Irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or Skin Sensitisation	: May cause an allergic skin reaction.
Germ Cell Mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive Toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific Target Organ Toxicity (Single Exposure)	: Not classified (Based on available data, the classification criteria are not met)

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Specific Target Organ Toxicity (Repeated Exposure)	: Not classified (Based on available data, the classification criteria are not met)
Aspiration Hazard	: Not classified (Based on available data, the classification criteria are not met)
Symptoms/Injuries After Inhalation	: Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact	: May cause an allergic skin reaction.
Symptoms/Injuries After Eye Contact	: May cause slight irritation to eyes.
Symptoms/Injuries After Ingestion	: Ingestion may cause adverse effects.
Chronic Symptoms	: 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

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

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

Potassium chloride (7447-40-7)	
LC50 - Fish [1]	1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea	825 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	750 – 1020 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
Potassium ferricyanide (13746-66-2)	
EC50 - Crustacea	59 mg/l
Potassium cyanide (151-50-8)	
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])
Sodium nitrite (7632-00-0)	
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
1H-Pyrrole (109-97-7)	
LC50 - Fish	197 – 224 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)	
LC50 - Fish	1,6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 - Crustacea [1]	4,71 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	0,12 – 0,3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])
Hydrochloric acid (7647-01-0)	
LC50 - Fish [1]	7,45 mg/l (Species: Oncorhynchus mykiss - Exposure time: 96h)
Sodium hydroxide (1310-73-2)	
LC50 - Fish	45,4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea	40 mg/l
Phosphoric acid, potassium salt (1:1) (7778-77-0)	
LC50 - Fish	> 100 mg/l (Read across)
Calcium chloride (10043-52-4)	
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)
Sodium chloride (7647-14-5)	
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])

KOVA Liqua-Trol® Level I Abnormal (120 mL and 15 mL); KOVA®poc Abnormal (25mL, 15mL and 5mL)

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Sodium chloride (7647-14-5)	
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)

12.2. Persistence and Degradability

KOVA Liqua-Trol® Level I Abnormal (120 mL and 15 mL); KOVA®poc Abnormal (25mL, 15mL and 5mL)	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

KOVA Liqua-Trol® Level I Abnormal (120 mL and 15 mL); KOVA®poc Abnormal (25mL, 15mL and 5mL)	
Bioaccumulative Potential	Not established.
1-Piperazineethanesulfonic acid, 4-(2-hydroxyethyl)-, monosodium salt (75277-39-3)	
Partition coefficient n-octanol/water (Log Pow)	< -3,88 at 20 °C (at pH 7)
Sodium nitrite (7632-00-0)	
Partition coefficient n-octanol/water (Log Pow)	-3,7 at 25 °C
1H-Pyrrole (109-97-7)	
Partition coefficient n-octanol/water (Log Pow)	0,75
3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)	
Partition coefficient n-octanol/water (Log Pow)	-0,71 – 0,75 at 20 °C
3(2H)-Isothiazolone, 2-methyl- (2682-20-4)	
Partition coefficient n-octanol/water (Log Pow)	-0,26 at 20 °C (at pH 5)
Calcium chloride (10043-52-4)	
BCF Fish	No bioaccumulation
Sodium chloride (7647-14-5)	
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 Recommendations	: Dispose of contents/container in accordance with local, regional, national, and international regulations.
Additional Information	: Container may remain hazardous when empty. Continue to observe all precautions.
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

KOVA Liqua-Trol® Level I Abnormal (120 mL and 15 mL); KOVA® poc Abnormal (25mL, 15mL and 5mL)

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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	KOVA Liqua-Trol® Level I Abnormal (120 mL and 15 mL); KOVA® poc Abnormal (25mL, 15mL and 5mL); 1H-Pyrrole; 3(2H)-Isothiazolone, 5-chloro-2-methyl-; Hydrochloric acid
3(c) 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 class 4.1	3(2H)-Isothiazolone, 5-chloro-2-methyl-; 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

Methyl acetoacetate, monosodium salt (34284-28-1)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
1-Piperazineethanesulfonic acid, 4-(2-hydroxyethyl)-, monosodium salt (75277-39-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Potassium chloride (7447-40-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl- (60-27-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Glucose (50-99-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Water (7732-18-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Monopotassium carbonate (298-14-6)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Potassium ferricyanide (13746-66-2)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Potassium cyanide (151-50-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Esterase, carboxyl (9016-18-6)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Sodium nitrite (7632-00-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

KOVA Liqua-Trol® Level I Abnormal (120 mL and 15 mL); KOVA® poc Abnormal (25mL, 15mL and 5mL)

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Albumins, blood serum (9048-46-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
1H-Pyrrole (109-97-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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)
1-Naphthalenesulfonic acid, 8-(phenylamino)-, monoammonium salt (28836-03-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Magnesium nitrate (10377-60-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
3(2H)-Isothiazolone, 2-methyl- (2682-20-4)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Calcium hydroxide phosphate (Ca5(OH)(PO4)3) (12167-74-7)
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)
Sodium hydroxide (1310-73-2)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Gentamicin (1403-66-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Phosphoric acid, disodium salt (7558-79-4)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Phosphoric acid, potassium salt (1:1) (7778-77-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Calcium chloride (10043-52-4)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
N-(1-Naphthyl)ethylenediamine dihydrochloride (1465-25-4)
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)

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

Methyl acetoacetate, monosodium salt (34284-28-1)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
1-Piperazineethanesulfonic acid, 4-(2-hydroxyethyl)-, monosodium salt (75277-39-3)
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 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 chloride (7447-40-7)
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)
4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl- (60-27-5)

KOVA Liqua-Trol® Level I Abnormal (120 mL and 15 mL); KOVA® poc Abnormal (25mL, 15mL and 5mL)

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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 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)

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)

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)

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)

KOVA Liqua-Trol® Level I Abnormal (120 mL and 15 mL); KOVA® poc Abnormal (25mL, 15mL and 5mL)

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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 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)
Esterase, carboxyl (9016-18-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) 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)
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)
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) 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)

KOVA Liqua-Trol® Level I Abnormal (120 mL and 15 mL); KOVA® poc Abnormal (25mL, 15mL and 5mL)

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Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemicals Inventory)
1-Naphthalenesulfonic acid, 8-(phenylamino)-, monoammonium salt (28836-03-5)
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 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)
Disodium 6,6'-dihydroxy-3,3'-(4,5,6,7-tetrabromo-1,3-dihydro-3-oxoisobenzofuran-1-ylidene)dibenzenesulphonate (123359-42-2)
Listed on the NCI (Vietnam - National Chemicals Inventory)
Magnesium nitrate (10377-60-3)
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)
3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)
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)
3(2H)-Isothiazolone, 2-methyl- (2682-20-4)
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)
Calcium hydroxide phosphate (Ca5(OH)(PO4)3) (12167-74-7)
Listed on the Canadian DSL (Domestic Substances List) 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)
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)

KOVA Liqua-Trol® Level I Abnormal (120 mL and 15 mL); KOVA® poc Abnormal (25mL, 15mL and 5mL)

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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)

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)

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)

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)

KOVA Liqua-Trol® Level I Abnormal (120 mL and 15 mL); KOVA® poc Abnormal (25mL, 15mL and 5mL)

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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)
N-(1-Naphthyl)ethylenediamine dihydrochloride (1465-25-4)
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 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)
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)

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Date of Preparation or Latest Revision	: 08/05/2023
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- and EUH-statements:

Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
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 (Dermal)	Acute toxicity (dermal), Category 3
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 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
EUH071	Corrosive to the respiratory tract.

KOVA Liqua-Trol® Level I Abnormal (120 mL and 15 mL); KOVA® poc Abnormal (25mL, 15mL and 5mL)

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EUH208	Contains (name of sensitising substance). May produce an allergic reaction.
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.
H311	Toxic 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.
H411	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
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 Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

Classification and Procedure Used to Derive the Classification for Mixtures According to Regulation (EC) 1272/2008 [CLP]:

Skin Sens. 1	Calculation method
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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
 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

NDS - Najwyższe Dopuszczalne Stezenie
 NDSC - Najwyższe Dopuszczalne Stezenie Chwilowe
 NDSP - Najwyższe Dopuszczalne Stezenie Pulapowe
 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

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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

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 accor. 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 No 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

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

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- OWCRILV - 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 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

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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.

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)