# Tintometer<sup>®</sup> Group Water Testing



Page 1/12

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.11.2023

Version number 7 (replaces version 6)

Revision: 08.08.2022

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

- 1.1 Product identifier
- Product name: KS810 Dissolved Oxygen Reagent 2
- · Catalog number: 56Z081098, 56L0810, 56L081030, 461160, 427706
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation: Reagent for water analysis
- · 1.3 Details of the supplier of the safety data sheet
- Supplier: Tintometer GmbH Schleefstraße 8-12 44287 Dortmund Made in Germany www.lovibond.com

The Tintometer Limited Lovibond<sup>®</sup>House Sun Rise Way Amesbury Wiltshire SP4 7GR United Kingdom

- Informing department: e-mail: sds@lovibond.com Product Safety Department
- **1.4 Emergency telephone number:** +44 1235 239670 Languages: English

# **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

STOT RE 1

H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.

GHS05 corrosion

•	
Met. Corr.1	H290 May be corrosive to metals.
Skin Corr. 1A	H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

## 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

phone: +49 (0)231 94510-0 e-mail: sales@lovibond.com

phone : +44 1980 664800 e-mail: SDS@lovibond.uk

(Contd. on page 2)

Version number 7 (replaces version 6)

#### Product name: KS810 - Dissolved Oxygen Reagent 2

· Hazard pictograms



- · Signal word Danger
- · Hazard-determining components of labelling:
- sodium hydroxide potassium iodide
- · Hazard statements
- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H372 Causes damage to the thyroid through prolonged or repeated exposure. Route of exposure: Oral.
- H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection.

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

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

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

P310 Immediately call a doctor.

#### · 2.3 Other hazards

Acid burns have to treated immediately, as it may otherwise cause badly curing wounds.

The main intake pathways of potassium iodide are: inhalation of dust and solution aerosols, as well as oral ingestion.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

#### Determination of endocrine-disrupting properties

The product does not contain substances with endocrine disrupting properties.

## **SECTION 3: Composition/information on ingredients**

#### · 3.2 Mixtures

Description: aqueous solution

· Dangerous components:		
CAS: 1310-73-2	sodium hydroxide	25–35%
EINECS: 215-185-5	🔶 Met. Corr.1, H290; Skin Corr. 1A, H314	1
Index No: 011-002-00-6	Specific concentration limits: Skin Corr. 1A; H314: $C \ge 5 \%$	
Reg.nr.: 01-2119457892-27-XXXX	Skin Corr. 1B; H314: 2 % ≤ C < 5 %	
	Skin Irrit. 2; H315: 0.5 % ≤ C < 2 %	
	Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	
CAS: 7681-11-0	potassium iodide	10–20%
EINECS: 231-659-4	🚸 STOT RE 1, H372	1
Reg.nr.: 01-2119966161-40-XXXX		
CAS: 26628-22-8	sodium azide	0.25–<1%
EINECS: 247-852-1 Index No: 011-004-00-7	<ul> <li>♦ Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; ♦ STOT RE</li> <li>2, H373; ♦ Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1), EUH032</li> </ul>	

Additional information For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

· General information

Personal protection for the First Aider!

Instantly remove any clothing soiled by the product.

• After inhalation Supply fresh air. Call a doctor.

(Contd. on page 3)

(Contd. of page 1)

Revision: 08.08.2022

Version number 7 (replaces version 6)

Revision: 08.08.2022

## Product name: KS810 - Dissolved Oxygen Reagent 2

After skin contact	(Contd. of page
Instantly rinse with water.	
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.	
After eye contact	
Rinse opened eye for several minutes (at least 15 min) under running water.	
Call a doctor immediately.	
After swallowing	
Rinse out mouth and then drink 1-2 glasses of water.	
Do not induce vomiting; instantly call for medical help.	
4.2 Most important symptoms and effects, both acute and delayed:	
Irritation and corrosion	
after inhalation:	
coughing	
breathing difficulty	
Possible damages: damage of respiratory tract	
after swallowing:	
strong caustic effect. sickness	
vomiting	
pain	
cramps	
after absorption:	
drop in blood pressure	
weakness	
headache	
Danger Risk of blindness!	
<b>Danger</b> Risk of blindness! Danger of gastric perforation.	
<b>Danger</b> Risk of blindness! Danger of gastric perforation. Danger of pulmonary oedema.	
Danger Risk of blindness! Danger of gastric perforation. Danger of pulmonary oedema. 4.3 Indication of any immediate medical attention and special treatment needed:	
Danger Risk of blindness! Danger of gastric perforation. Danger of pulmonary oedema. 4.3 Indication of any immediate medical attention and special treatment needed: If swallowed or in case of vomiting, danger of entering the lungs	
Danger Risk of blindness! Danger of gastric perforation. Danger of pulmonary oedema. 4.3 Indication of any immediate medical attention and special treatment needed: If swallowed or in case of vomiting, danger of entering the lungs Subsequent observation for pneumonia and pulmonary oedema	
Danger Risk of blindness! Danger of gastric perforation. Danger of pulmonary oedema. 4.3 Indication of any immediate medical attention and special treatment needed: If swallowed or in case of vomiting, danger of entering the lungs Subsequent observation for pneumonia and pulmonary oedema Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory ar	nd cardiovascular disorders
Danger Risk of blindness! Danger of gastric perforation. Danger of pulmonary oedema. 4.3 Indication of any immediate medical attention and special treatment needed: If swallowed or in case of vomiting, danger of entering the lungs Subsequent observation for pneumonia and pulmonary oedema Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory ar (possibly shock), skin and mucous membrane reactions possible. (GESTIS)	nd cardiovascular disorders
Danger Risk of blindness! Danger of gastric perforation. Danger of pulmonary oedema. 4.3 Indication of any immediate medical attention and special treatment needed: If swallowed or in case of vomiting, danger of entering the lungs Subsequent observation for pneumonia and pulmonary oedema Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory ar	nd cardiovascular disorders
Danger Risk of blindness! Danger of gastric perforation. Danger of pulmonary oedema. 4.3 Indication of any immediate medical attention and special treatment needed: If swallowed or in case of vomiting, danger of entering the lungs Subsequent observation for pneumonia and pulmonary oedema Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory ar (possibly shock), skin and mucous membrane reactions possible. (GESTIS)	nd cardiovascular disorders
Danger Risk of blindness! Danger of gastric perforation. Danger of pulmonary oedema. <b>4.3 Indication of any immediate medical attention and special treatment needed:</b> If swallowed or in case of vomiting, danger of entering the lungs Subsequent observation for pneumonia and pulmonary oedema Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory ar (possibly shock), skin and mucous membrane reactions possible. (GESTIS) Symptoms of poisoning may even occur after several hours.	nd cardiovascular disorders
Danger Risk of blindness! Danger of gastric perforation. Danger of pulmonary oedema. 4.3 Indication of any immediate medical attention and special treatment needed: If swallowed or in case of vomiting, danger of entering the lungs Subsequent observation for pneumonia and pulmonary oedema Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory ar (possibly shock), skin and mucous membrane reactions possible. (GESTIS)	nd cardiovascular disorders
Danger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory ar         (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media	nd cardiovascular disorders
Danger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory ar         (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.	nd cardiovascular disorders
Danger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory ar         (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.         5.2 Special hazards arising from the substance or mixture	nd cardiovascular disorders
Danger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory ar         (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.         5.2 Special hazards arising from the substance or mixture         The product is not combustible.	nd cardiovascular disorders
Danger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory ar         (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.         5.2 Special hazards arising from the substance or mixture         The product is not combustible.         Formation of toxic gases is possible during heating or in case of fire.	nd cardiovascular disorders
Danger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory at (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.         5.2 Special hazards arising from the substance or mixture         The product is not combustible.         Formation of toxic gases is possible during heating or in case of fire.         Can be released in case of fire:	nd cardiovascular disorders
Danger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory at (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.         5.2 Special hazards arising from the substance or mixture         The product is not combustible.         Formation of toxic gases is possible during heating or in case of fire.         Can be released in case of fire:         Nitrogen oxides (NOX)	nd cardiovascular disorders
Danger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory and (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         Section 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.         5.2 Special hazards arising from the substance or mixture         The product is not combustible.         Formation of toxic gases is possible during heating or in case of fire.         Can be released in case of fire:         Nitrogen oxides (NOX)         Hydrogen iodide (HI)	nd cardiovascular disorders
Danger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory and (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.         5.2 Special hazards arising from the substance or mixture         The product is not combustible.         Formation of toxic gases is possible during heating or in case of fire.         Can be released in case of fire:         Nitrogen oxides (NOX)         Hydrogen iodide (HI)         Sodium oxide	nd cardiovascular disorders
Danger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory at (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.         5.2 Special hazards arising from the substance or mixture         The product is not combustible.         Formation of toxic gases is possible during heating or in case of fire.         Can be released in case of fire:         Nitrogen oxides (NOx)         Hydrogen iodide (HI)         Sodium oxide         5.3 Advice for firefighters	nd cardiovascular disorders
Danger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory at         (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.         5.2 Special hazards arising from the substance or mixture         The product is not combustible.         Formation of toxic gases is possible during heating or in case of fire.         Can be released in case of fire:         Nitrogen oxides (NOX)         Hydrogen iodide (HI)         Sodium oxide         5.3 Advice for firefighters         Protective equipment:	nd cardiovascular disorders
Danger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory at (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.         5.2 Special hazards arising from the substance or mixture         The product is not combustible.         Formation of toxic gases is possible during heating or in case of fire.         Can be released in case of fire:         Nitrogen oxides (NOx)         Hydrogen iodide (HI)         Sodium oxide         5.3 Advice for firefighters         Protective equipment:         Wear self-contained breathing apparatus.	nd cardiovascular disorders
Danger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory at (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.         5.2 Special hazards arising from the substance or mixture         The product is not combustible.         Formation of toxic gases is possible during heating or in case of fire.         Can be released in case of fire:         Nitrogen oxides (NOx)         Hydrogen iodide (HI)         Solum oxide         5.3 Advice for firefighters         Protective equipment:         Wear self-contained breathing apparatus.         Wear self-contained breathing apparatus.	nd cardiovascular disorders
Darger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory at (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.         5.2 Special hazards arising from the substance or mixture         The product is not combustible.         Formation of toxic gases is possible during heating or in case of fire.         Can be released in case of fire:         Nitrogen oxides (NOx)         Hydrogen iodide (HI)         Sodium oxide         5.3 Advice for firefighters         Protective equipment:         Wear self-contained breathing apparatus.         Wear full protective suit.         Additional information	nd cardiovascular disorders
Danger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory an (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.         5.2 Special hazards arising from the substance or mixture         The product is not combustible.         Formation of toxic gases is possible during heating or in case of fire.         Can be released in case of fire:         Nitrogen oxides (NOx)         Hydrogen iddide (HI)         Sodium oxide         5.3 Advice for firefighters         Protective equipment:         Wear self-contained breathing apparatus.         Wear self-contained breathing apparatus.         Wear self-contained breathing apparatus.         Wear full protective suit.         Additional information	nd cardiovascular disorders
Darger         Risk of blindness!         Danger of gastric perforation.         Danger of pulmonary oedema.         4.3 Indication of any immediate medical attention and special treatment needed:         If swallowed or in case of vomiting, danger of entering the lungs         Subsequent observation for pneumonia and pulmonary oedema         Absorption: in case of iodine hypersensitivity, even after relatively low doses, acute respiratory at (possibly shock), skin and mucous membrane reactions possible. (GESTIS)         Symptoms of poisoning may even occur after several hours.         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents Use fire fighting measures that suit the environment.         5.2 Special hazards arising from the substance or mixture         The product is not combustible.         Formation of toxic gases is possible during heating or in case of fire.         Can be released in case of fire:         Nitrogen oxides (NOx)         Hydrogen iodide (HI)         Sodium oxide         5.3 Advice for firefighters         Protective equipment:         Wear self-contained breathing apparatus.         Wear full protective suit.         Additional information	nd cardiovascular disorders

# **SECTION 6: Accidental release measures**

 $\cdot$  6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel:

Wear protective equipment. Keep unprotected persons away.

Avoid substance contact.

Ensure adequate ventilation

Printing date 15.11.2023

Version number 7 (replaces version 6)

Revision: 08.08.2022

#### Product name: KS810 - Dissolved Oxygen Reagent 2

Use breathing protection against the effects of fumes/dust/aerosol.	
Advice for emergency responders: Protective equipment: see section a	8

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

- Inform respective authorities in case product reaches water or sewage system.
- 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, universal binders).

Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

## **SECTION 7: Handling and storage**

- · 7.1 Precautions for safe handling
- · Advice on safe handling: Prevent formation of aerosols.
- · Hygiene measures:
- Do not inhale gases / fumes / aerosols.
- Do not get in eyes, on skin, or on clothing.
- Take off immediately all contaminated clothing.
- Wash hands during breaks and at the end of the work.
- Do not eat, drink or smoke when using this product.
- 7.2 Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and containers:
- Store in cool location.
- Keep only in original packaging.
- Information about storage in one common storage facility: Store away from metals.
- Do not store together with acids.
- Further information about storage conditions:
- Store in a locked cabinet or with access restricted to technical experts or their assistants.
- Protect from heat and direct sunlight.

Protect from the effects of light.

- Protect from humidity and keep away from water.
- · Recommended storage temperature: 20°C +/- 5°C
- · 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

· Components with limit values that require monitoring at the workplace:			
CAS: 1310-73-2 sodium	CAS: 1310-73-2 sodium hydroxide		
WEL (Great Britain)	Short-term value: 2 mg/m <sup>3</sup>		
CAS: 26628-22-8 sodiun	n azide		
WEL (Great Britain)	Short-term value: 0.3 mg/m³ Long-term value: 0.1 mg/m³ (as NaN₃), Sk		
IOELV (European Union)	Short-term value: 0.3 mg/m³ Long-term value: 0.1 mg/m³ Skin		
• <b>Regulatory information</b> WEL (Great Britain): EH40/2020 IOELV (European Union): (EU) 2019/1831			
· DNELs			

Derived No Effect Level (DNEL)

## CAS: 1310-73-2 sodium hydroxide

Inhalative DNEL 1 mg/m<sup>3</sup> (Worker / long-term / local effects)

(Contd. of page 3)

Version number 7 (replaces version 6)

Revision: 08.08.2022

## Product name: KS810 - Dissolved Oxygen Reagent 2

Printing date 15.11.2023

· Colour:

· Odour:

· Odour threshold:

Explosive properties:

· Lower and upper explosion limit

Flammability

Lower:

<b>CAS: 768</b> ′ Oral		
		1 mg/m <sup>3</sup> (Consumer / long-term / local effects)
Oral	-	potassium iodide
	DNEL	0.01 mg/kg /bw/d (Consumer / acute / systemic effects)
		0.01 mg/kg /bw/d (Consumer / long-term / systemic effects)
Dermal	DNEL	1 mg/kg /bw/d (Worker / long-term /systemic effects)
		1 mg/kg /bw/d (Consumer / long-term / systemic effects)
nhalative	DNEL	0.07 mg/m³ (Worker / long-term /systemic effects)
		0.035 mg/m³ (Consumer / long-term / systemic effects)
	or meas	nonitoring procedures: surement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and
PNECs		
		ct Concentration (PNEC)
	-	potassium iodide
	-	l (Fresh water)
	-	kg (Aquatic intermittent release)
0.0	)07 mg/	kg /sediment (Fresh water sediment)
Additiona	l infor	nation: The lists that were valid during the compilation were used as basis.
See item 7 Individual Protective substance Eye/face   Tightly sea	r clothin s handi protect	
Hand prof Alkaline re Preventive	tection esistant e skin p of glove of glove	gloves otection by use of skin-protecting agents is recommended. s apply skin-cleaning agents and skin cosmetics. <b>s</b>
Recomme	nded th on time	ickness of the material: ≥ 0.11 mm <b>of glove material</b>
Value for t The exact <b>Other ski</b> i <b>Breathing</b>	break t n prote l equip	neation: Level = 1 ( < 10 min ) rough time has to be found out by the manufacturer of the protective gloves and has to be observed. ction (body protection): Alkaline resistant protective clothing ment: Use breathing protection against the effects of fumes/dust/aerosol. ilter device for short term use: Combination filter B-P2
Value for t The exact Other skin Breathing Recomme	break t n prote l equip ended f	rough time has to be found out by the manufacturer of the protective gloves and has to be observed. ction (body protection): Alkaline resistant protective clothing ment: Use breathing protection against the effects of fumes/dust/aerosol.
Value for t The exact Other skii Breathing Recomme Environm	break t n prote ended f ental e	rough time has to be found out by the manufacturer of the protective gloves and has to be observed. ction (body protection): Alkaline resistant protective clothing ment: Use breathing protection against the effects of fumes/dust/aerosol. ilter device for short term use: Combination filter B-P2
Value for t The exact Other skin Breathing Recomme Environm SECTIO	break t n prote l equip ended f ental e	rough time has to be found out by the manufacturer of the protective gloves and has to be observed. ction (body protection): Alkaline resistant protective clothing ment: Use breathing protection against the effects of fumes/dust/aerosol. ilter device for short term use: Combination filter B-P2 xposure controls Do not allow product to reach sewage system or water bodies. Physical and chemical properties
Value for t The exact Other skin Breathing Recomme Environm SECTIO	break t n prote l equip ended f ental e N 9: F	rough time has to be found out by the manufacturer of the protective gloves and has to be observed. ction (body protection): Alkaline resistant protective clothing ment: Use breathing protection against the effects of fumes/dust/aerosol. ilter device for short term use: Combination filter B-P2 xposure controls Do not allow product to reach sewage system or water bodies.

Clear

• Melting point/Freezing point: Not determined. • Boiling point or initial boiling point and boiling range Not determined.

Odourless

Not applicable.

Not applicable.

The product is not combustible.

Product is not explosive.

(Contd. on page 6) GB —

Version number 7 (replaces version 6)

Revision: 08.08.2022

#### Product name: KS810 - Dissolved Oxygen Reagent 2

Printing date 15.11.2023

	(Contd. of page 5
Upper:	Not applicable.
Flash point:	Not applicable.
Auto-ignition temperature:	Not applicable.
Decomposition temperature:	Not determined.
pH at 20°C	> 12
Kinematic viscosity	Not determined.
Solubility	
· Water:	Fully miscible
· Partition coefficient n-octanol/water (log value)	Not applicable (mixture).
· Vapour pressure:	Not determined.
Density and/or relative density	
· Density at 20°C:	1.64 g/cm <sup>3</sup>
· Relative density:	Not determined.
· Relative gas density	Not determined.
· Particle characteristics	Not applicable (liquid).
· 9.2 Other information	
Information with regard to physical hazard classes	
· Corrosive to metals	May be corrosive to metals.
· Metals that are corroded by the substance or mixture	Information on incompatible materials can be found in Sections 7 and
•	10.
· Other safety characteristics	
· Oxidising properties:	none
Additional information	
· Solids content:	40 - 50 %
· Solvent content:	
· Organic solvents:	0 %
· Water:	50 - 60 %

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

• **10.1 Reactivity** see section 10.3

- · 10.2 Chemical stability Stable at ambient temperature (room temperature).
- 10.3 Possibility of hazardous reactions
- Reacts with metals forming hydrogen (Danger of explosion in case of large amounts!)
- Corrosive action on metals
- Contact with acids releases toxic gases
- Reacts with alkaline metals
- Reacts with peroxides
- Reacts with halogenated compounds
- Reacts with acids and oxidising agents.
- Reacts with reducing agents
- Reacts with alcohols
- Reacts with ammonia (NH<sub>3</sub>).
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials:
- metals
- light metals
- organic substances
- 10.6 Hazardous decomposition products: see section 5

## **SECTION 11: Toxicological information**

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

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:				
CAS: 1	310-73-2 s	odium hydroxide		
Oral	LDLo	500 mg/kg (rabbit) (IUCLID)		
		(Contd. on page 7)		

Version number 7 (replaces version 6)

Revision: 08.08.2022

# Product name: KS810 - Dissolved Oxygen Reagent 2

Oral		tassium iodide
	LD50	2779 mg/kg (rat)
Dermal	LD50	3160 mg/kg (rabbit)
	NOAEL	0.01 mg/kg /bw/d (human)
		organ: Thyroid
		odium azide
Oral	LD50	27 mg/kg (rat)
	LDLo	(RTECS) 29 mg/kg (human)
Dermal	LDL0 LD50	20 mg/kg (rabbit)
Dennai	LD30	(ECHA)
Inhalative	LC50/4h	>0.052 mg/l (rat) (dust, aerosol) (ECHA: LC₅₀= 0,052 - 0,52 mg/l)
	LC50	1.853 mg/l/1h (rat) (Registrant, ECHA)
Causes se Risk of blin Respirato	rious eye ndness! ry or skir on on cor	n sensitisation Based on available data, the classification criteria are not met. nponents:
	-	s to iodides in general: Sensitation possible at predisposed persons.
		dium hydroxide
Sensitisat	on Patch	test (human) (negative)
Information OECD 414 OECD 473	on on cor 4: Teratog 3: Mutage	<b>ity</b> Based on available data, the classification criteria are not met. <b>nponents:</b> enicity testing nicity testing 
		6, 487: Germ cell mutagenicity testing tassium iodide
	-	
$() \vdash (.1) \perp 1 / 1$		(Recterial Reverse Mutation Test - Ames test)
OECD 47	6 (negati	ve) (Bacterial Reverse Mutation Test - Ames test) ve) (In Vitro Mammalian Cell Gene Mutation Test) (lymhoma L5178Y cells)
OECD 470 STOT (sp STOT (sp	o (negati Mouse ) ecific targ	ve) (In Vitro Mammalian Cell Gene Mutation Test)
OECD 470 STOT (sp STOT (sp Causes da	6 (negati Mouse ecific targ ecific targ amage to f	ve) (In Vitro Mammalian Cell Gene Mutation Test) (lymhoma L5178Y cells) get organ toxicity) -single exposure Based on available data, the classification criteria are not met. get organ toxicity) -repeated exposure
OECD 470 STOT (sp STOT (sp Causes da Aspiration Information	in the section of the	ve) (In Vitro Mammalian Cell Gene Mutation Test) (lymhoma L5178Y cells) get organ toxicity) -single exposure Based on available data, the classification criteria are not met. get organ toxicity) -repeated exposure the thyroid through prolonged or repeated exposure. Route of exposure: Oral. Based on available data, the classification criteria are not met.
OECD 470 STOT (sp STOT (sp Causes da Aspiration Information "Main rout At workpla Outside th Respiratory Skin: Fron absorbed Gastrointe studies wi In the wor effect (wat of solution expected.	cific targe ecific targe ecific targe ecific targe ecific targe ecific targe ecific targe ecific targe en hazard on on like es of expo ces, intak e workpla y tract: KI sodium ic y tract was n tests on was estim stinal trace th KI on ac cipice, so ning effec , rapid pe	<ul> <li>(In Vitro Mammalian Cell Gene Mutation Test)</li> <li>(Iymhoma L5178Y cells)</li> <li>get organ toxicity) -single exposure Based on available data, the classification criteria are not met.</li> <li>get organ toxicity) -repeated exposure</li> <li>the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Hy routes of exposure</li> <li>Desure:</li> <li>e of potassium iodide (KI) is most likely to occur via the respiratory tract.</li> <li>ce, iodides are ingested with food (essential) and sometimes with medications.</li> <li>can be inhaled as dust or aerosol from solutions. Inhalation studies were conducted with particulate aerosol odide using various animal species (monkey, mouse, sheep). Rapid and effective absorption via the sobserved. This is also assumed for KI as its solubility is comparable.</li> <li>volunteers who had an aqueous KI solution applied to their forearms (12.5 cm<sup>2</sup>), the amount of iodine ated at 0.1%. Absorption through the skin is therefore considered to be of little relevance.</li> <li>t: Soluble iodide is absorbed almost entirely via the gastrointestinal tract. This has been proven by results of duit volunteers." [GESTIS]</li> <li>dium hydroxide can be inhaled in the form of dusts or as a liquid aerosol. Due to the pronounced irritant tt), prolonged massive exposures are generally avoided. In case of accidental ingestion of dust or swallowir netration of the alkali or Na and OH ions into the contacted tissues and partial transfer into the blood is to b</li> </ul>
OECD 470 STOT (sp STOT (sp Causes da Aspiration Information "Main rout At workpla Outside th Respiratory Skin: Fron absorbed Gastrointe studies wi In the wor effect (wan of solution expected. Even if Na rapid wate	cific targ ecific targ ecific targ ecific targ ecific targ ecific targ ecific targ ecific targ ended on on like es of expo ces, intak e workpla y tract: KI sodium id y tract was n tests on was estim stinal trac th KI on ark cplace, so ning effec , rapid pe OH come r absorpti	<ul> <li>(In Vitro Mammalian Cell Gene Mutation Test)</li> <li>(Iymhoma L5178Y cells)</li> <li>(Iter the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>Based on available data, the classification criteria are not met.</li> <li>(Iy routes of exposure)</li> <li>(Iter the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>Based on available data, the classification criteria are not met.</li> <li>(Iter the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>(Iter the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>(Iter the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>(Iter the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>(Iter the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>(Iter the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>(Iter the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>(Iter the thyroid through prolonged or repeated exposure. Route of exposure: Oral.</li> <li>(Iter the thyroid through prolonged provide (KI) is most likely to occur via the respiratory tract.</li> <li>(Iter the the the the the the the the tespiratory tract.</li> <li>(Iter the the tespical and the tespiratory tract.</li> <li>(Iter the the tespical and the tespical and the tespiratory tract.</li> <li>(Iter the tespical and the tespical and the tespiratory tract.</li> <li>(Iter the tespical and the tespical and the tespiratory tract.</li> <li>(Iter the tespical and the tespical and the tespiratory tract.</li> <li>(Iter the tespical and the tespical and the tespiratory tract.</li> <li>(Iter the tespical and the tespical and the tespiratory tract.</li> <li>(Iter the tespical and the tespiratory the tespira</li></ul>

Version number 7 (replaces version 6)

Revision: 08.08.2022

## Product name: KS810 - Dissolved Oxygen Reagent 2

AS: 1310-73-2	sodium hydroxide
(source: GES	
Main toxic effe	
	rritation and caustic effect on all contacted mucous membranes and the skin, risk of irreversible eye damage
(risk of blindne	
Chronic. Inital	t effect on eyes, respiratory tract and skin
Further inform	
	the route of exposure, the focus is on the local effect, which is characterized by swelling and dissolution of the
contacted tissu	e (colliquation necrosis) that progresses rapidly in depth.
	he tissue damage essentially depends on the duration of exposure, concentration, pH value, dose and onset o
treatment mea	
(source: GES	potassium iodide
Main Toxic Eff	
	n to the eyes, skin and airways, disturbance of thyroid function, cardiovascular effects, metabolic disturbances
	bance of thyroid function, systemically conditioned skin damage and inflammation of the mucous membranes
	tion (GESTIS, Merck):
	of iodine are essential for the body. However, long-term overdoses of iodine lead to disturbances in the thyro
function (hypo-	and/or hyperthyroidism, possibly accompanied by thyroiditis). The effects are very complex.
Furthermore, s	ymptoms of chronic iodine poisoning (iodine toxicosis, "iodism") can occur following intake of high doses of
membranes ar	ersons. They mainly consist of systemically conditioned irritation/inflammatory changes to the mucous
	the placenta and, when administered (orally) to pregnant women in very high doses, can lead to
	and/or goiter in the fetus with deaths from tracheal compression
	8 sodium azide
(source: GES	ris)
Nain toxic effe	
Acute & chroni	c: disorders in the cardiovascular and nervous systems
	ntion.
Further information	ation: I sector, various symptoms have been observed after dermal and/or inhalation exposure to sodium azide,
	systemic intoxication: drop in blood pressure, bradycardia, dizziness, headache, palpitations, metabolic
	times also paraesthesia and reduced muscle strength.
	r of case reports are available on poisoning after ingestion: Rapid onset of dilatation of peripheral vessels and
	blood pressure are characteristic. N. also has a direct (spasmodic) effect on the CNS. Usual symptoms of N.
poisoning are	achycardia, headache, weakness, dizziness, nausea, convulsions, collapse. Shortness of breath, vomiting,
	r abdominal pain, sweating, restlessness and visual disturbances were also described.
1 2 Informatio	n on other hazards
	upting properties The product does not contain substances with endocrine disrupting properties.
ther informati	
	s properties can not be excluded.
	information available to us, the chemical, physical and toxicological properties of the substances mentioned in

# **SECTION 12: Ecological information**

#### · 12.1 Toxicity · Aquatic toxicity: CAS: 1310-73-2 sodium hydroxide LC50 40.4 mg/l/48h (Ceriodaphnia sp.) (ECHA) CAS: 7681-11-0 potassium iodide EC50 7.5 mg/l/48h (Daphnia magna) (OECD 202) Merck LC50 3780 mg/l/96h (rainbow trout) (OECD 203) Merck (Contd. on page 9)

(Contd. of page 7)

Version number 7 (replaces version 6)

# Product name: KS810 - Dissolved Oxygen Reagent 2

Printing date 15.11.2023

0.4.0. 00000 00 0	(Contd. of page
CAS: 26628-22-8	
EC50 4.2 mg/l/48 (ECOTEX)	3h (Daphnia magna) I
Bacterial toxicity	/:
CAS: 1310-73-2	sodium hydroxide
EC50 22 mg/l (P	hotobacterium phosphoreum) (15 min)
12.2 Persistence	and degradability .
Other informatio	
Mixture of inorgan	
Methods for the d	etermination of biodegradability are not applicable to inorganic substances.
12.3 Bioaccumu	
	vasser partition coefficient es not accumulate in organisms.
CAS: 26628-22-8	•
log Pow 0.3 (.) (0 (Merck)	
	soil No further relevant information available.
	PBT and vPvB assessment
	s not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very
	ry bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006. <b>Iisrupting properties</b> The product does not contain substances with endocrine disrupting properties.
12.7 Other adver	
Harmful effect du	
	nixtures with water even if diluted.
	to form toxic decomposition products.
	o the environment.
Water hazard:	
	uct to reach ground water, water bodies or sewage system, even in small quantities.
Danger to drinkin	g water if even extremely small quantities leak into soil.
SECTION 13:	Disposal considerations
13.1 Waste treat	
Recommendatio	
Must not be dispo	sed of together with household garbage. Do not allow product to reach sewage system.
Hand over to disp	osers of hazardous waste.
European waste	catalogue
16 05 07* discar	ded inorganic chemicals consisting of or containing hazardous substances
Uncleaned pack	agings:
Recommendatio	<b>n:</b> Disposal must be made according to official regulations.
	cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information				
<ul> <li>14.1 UN number or ID number</li> <li>ADR, IMDG, IATA</li> </ul>	UN1824			
<ul> <li>14.2 UN proper shipping name</li> <li>ADR</li> <li>IMDG, IATA</li> </ul>	1824 SODIUM HYDROXIDE SOLUTION SODIUM HYDROXIDE SOLUTION			
· 14.3 Transport hazard class(es)				
· ADR				
A CONTRACTOR OF				
Class	8 (C5) Corrosive substances.			
		(Contd. on page 10) GB —		
		GB —		

Version number 7 (replaces version 6)

Revision: 08.08.2022

## Product name: KS810 - Dissolved Oxygen Reagent 2

	(Contd. of page S
· Label	8
· IMDG, IATA	
8	
· Class	8 Corrosive substances.
· Label	8
	0
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	11
· · ·	11
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
•	No
• 14.6 Special precautions for user	Warning: Corrosive substances.
Kemler Number:     EMS Number:	80 F-A,S-B
· Segregation groups	(SGG18) Alkalis
· Stowage Category	A
· Segregation Code	SG35 Stow "separated from" SGG1-acids
· 14.7 Maritime transport in bulk according	g to IMO
instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
Transport optogon	Maximum net quantity per outer packaging: 500 ml
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	2 E
	L
· IMDG	11
<ul> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2
LACEPTEN QUAITITIES (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per unter packaging: 500 ml

# **SECTION 15: Regulatory information**

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

· Poisons Act UK		
· Regulated explosives precursors		
None of the ingredients is listed.		
· Regulated poisons		
None of the ingredients is listed.		
· Reportable explosives precursors		
None of the ingredients is listed.		
<ul> <li>• Reportable poisons         The substance falls under reportable poisons due to the fact that the concentration is greater than/equal (c≥ x%) the stated mass percentage:     </li> </ul>		
CAS: 1310-73-2 sodium hydroxide	12% of total caustic alkalinity	
· Regulation (EU) 2019/1148 on the marketing and use of explosives precursors not regulated		
<ul> <li>Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)</li> </ul>		
None of the ingredients is listed.		

(Contd. on page 11)

Version number 7 (replaces version 6)

Revision: 08.08.2022

### Product name: KS810 - Dissolved Oxygen Reagent 2

Printing date 15.11.2023

(Contd. of page 10)
<ul> <li>Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:</li> </ul>
None of the ingredients is listed.
· Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.
<ul> <li>Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors</li> </ul>
None of the ingredients is listed.
· Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:
None of the ingredients is listed.
· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)
None of the ingredients is listed.
· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)
None of the ingredients is listed.

· Substances of very high concern (SVHC) according to REACH, Article 57

- This product does not contain any substances of very high concern above the legal concentration limit of  $\geq 0.1\%$  (w / w). Substances of very high concern (SVHC) according to UK REACH
- This product does not contain any substances of very high concern above the legal concentration limit of  $\geq 0.1\%$  (w / w).
- · Directive 2012/18/EU (SEVESO III):
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- Information about limitation of use: Employment restrictions concerning young persons must be observed (94/33/EC).
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Training hints Provide adequate information, instruction and training for operators.

#### **Relevant phrases**

- May be corrosive to metals. H290
- H300 Fatal if swallowed.
- H310 Fatal in contact with skin.
- Causes severe skin burns and eye damage. H314
- H330 Fatal if inhaled.
- Causes damage to organs through prolonged or repeated exposure. H372
- May cause damage to organs through prolonged or repeated exposure. H373
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

EUH032 Contact with acids liberates very toxic gas.

### Abbreviations and acronyms:

OECD: Organisation for Economic Co-operation and Development STOT: specific target organ toxicity

- SE: single exposure

RE: repeated exposure EC50: half maximal effective concentration

IC50: half maximal inhibitory concentration

NOEL or NOEC: No Observed Effect Level or Concentration

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

Version number 7 (replaces version 6)

Revision: 08.08.2022

#### Product name: KS810 - Dissolved Oxygen Reagent 2

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Met. Corr. 1: Corrosive to metals – Category 1 Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 1: Acute toxicity – Category 1 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Eye Dam. 1: Serious eye damage/eye irritation – Category 1 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 **Sources** 

Data arise from safety data sheets, reference works and literature. ECHA: European CHemicals Agency http://echa.europa.eu ECOTOX Database GESTIS- Stoffdatenbank (Substance Database, Germany)

#### \* \* Data compared to the previous version altered.

Printing date 15.11.2023

(Contd. of page 11)

GB