# immusmol Safety Data Sheet according to Regulation (EU) 2020/878

Date of issue: 21.08.2023

Revision date: 21.08.2023

Version/Replaced version: 07/06

#### The Safety Data Sheet is usable for:

REF	Name	
BA E-2400	Glutamate ELISA	

BA E-2400R Glutamate ELISA

#### Single components with dangerous ingredients:

Name	
Stop Solution	STOP-SOLN
Assay Buffer	ASSAY-BUFF
D-Reagent	D-REAGENT
NaOH	NAOH
	Stop Solution Assay Buffer D-Reagent

Not listed single components contain no hazardous substances in concentrations to be declared, a labelling is not required.

# *i*mmus**mol**

# **Stop Solution BA E-0080**

Safety Data Sheet

according to Regulation (EU) 2020/878

		Date of issue: 14.07.2023	Revision date: -	Version/Replaced version: 1.0/-
SECT	ION 1: Identification of the	e substance/mixture and of	the company/undertak	king
1.1.	Product identifier			
Product	form	: Mixture		
Product	name	: Stop Solution BA E-0080		
UFI		: -		
1.2.	Relevant identified uses of the	e substance or mixture and uses	advised against	
1.2.1.	Relevant identified uses			
Use of t	he substance/mixture	: Laboratory reagent, Immu	inoassays	
		Use by professionals.		
1.2.2.	Uses advised against			
No add	tional information available			

#### 1.3. Details of the supplier of the safety data sheet

#### Supplier/Manufacturer

LDN Labor Diagnostika Nord GmbH & Co. KG Am Eichenhain 1 48531 Nordhorn, Germany T +49 (0)5921 81970 - F +49 (0)5921 8197 201 support@ldn.de

#### **Emergency telephone number** 1.4.

Country	Organisation/Company	Address	Emergency telephone number
Germany	LDN Labor Diagnostika Nord GmbH & Co. KG	Am Eichenhain 1	+49 (0) 5921-81970
-		48531 Nordhorn, Germany	(Mo-Fr 8:00-16:00)

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture 2.1.

Classification according to Regulation (EC) No. 1272/2008 [CLP] Corrosive to metals, Category 1 H290

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

#### May be corrosive to metals.

#### Label elements 2.2

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

#### Hazard pictograms (CLP)



	01303
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H290 - May be corrosive to metals.
Precautionary statements (CLP)	: P234 - Keep only in original packaging. P390 - Absorb spillage to prevent material damage. P406 - Store in a corrosion resistant container with a resistant inner liner.

CLICOF

Reduced labelling	(contents of the nackade	< 125 ml	) according to Regulation	(EC) No	1272/2008 [CLP]

• •	 -		· ·
Hazard pictograms (CLP)		:	-
Signal word (CLP)		:	-
Hazard statements (CLP)		:	-
Precautionary statements (CLP)		:	-

#### 2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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Safety Data Sheet

according to Regulation (EU) 2020/878

## SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sulphuric acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8	< 5 Met. Corr. 1, H290 Skin Corr. 1A, H314	
Name	Product identifier	Specific concentration limits according to Regulation (EC) No. 1272/2008 [CLP]	
Sulphuric acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8	(5 ≤ C < 15) Eye Irrit. 2, H319 (5 ≤ C < 15) Skin Irrit. 2, H315 (C ≥ 15) Skin Corr. 1A, H314	

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Drink plenty of water as a precaution.
4.2. Most important symptoms and effect	cts, both acute and delayed
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
<b>4.3.</b> Indication of any immediate medica Treat symptomatically.	I attention and special treatment needed
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Adapt extinguishing agents to the environment. Carbon dioxide. Foam. Dry extinguishing powder. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the su	bstance or mixture
Hazardous decomposition products in case of fire	: Toxic gases may be formed. Carbon dioxide. Carbon monoxide.
5.3. Advice for firefighters	
Firefighting instructions	: Prevent firefighting water from entering the environment. Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Use a self-contained breathing apparatus and also a protective suit.
SECTION 6: Accidental release meas	sures
	uipment and emergency procedures
General measures	: Ensure adequate air ventilation. Avoid contact with skin and eyes. Do not breathe vapours/spray.
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection.
6.2. Environmental precautions	
Prevent entry to sewers and public waters.	
6.3. Methods and material for containing	ent and cleaning up
Methods for cleaning up	: Absorb spillage to prevent material damage. Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Dispose of in accordance with relevant local regulations.

#### Safety Data Sheet

according to Regulation (EU) 2020/878

#### 6.4. Reference to other sections

Exposure controls and personal protection, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosol.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Storage conditions	: Store in corrosive resistant container with a resistant inner liner. Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from direct sunlight. Keep out of frost.
Prohibitions on mixed storage	: Keep away from food, drink and animal feedingstuffs.
Incompatible materials	: Metals.
7.3. Specific end use(s)	

Laboratory reagent, Immunoassays

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

#### 8.1. Control parameters

Sulphuric acid (7664-93-9)		
EU	Local name	Sulphuric acid (mist)
EU	IOEL TWA	0.05 mg/m³
Austria	Local name	Schwefelsäure
Austria	MAK (OEL TWA) (mg/m³)	0.1 E mg/m <sup>3</sup>
Austria	MAK (OEL STEL) (mg/m³)	0.2 E mg/m <sup>3</sup>
Belgium	Local name	Acide sulfurique (brume) # Zwavelzuur (nevel)
Belgium	OEL TWA (mg/m³)	0.2 mg/m <sup>3</sup>
Belgium	Remark	с
Germany	TRGS 900 Local name	Schwefelsäure
Germany	TRGS 900 Occupational Exposure Limit Value (mg/m³)	0.1 E mg/m <sup>3</sup>
Germany	TRGS 900 Remark	1(I), DFG, EU, Y
Luxembourg	Local name	Acide sulfurique (brume)
Luxembourg	OEL STEL (mg/m³)	0.05 mg/m³
Switzerland	Local name	Schwefelsäure
Switzerland	MAK (mg/m³)	0.1 e mg/m <sup>3</sup>
Switzerland	KZGW (mg/m³)	0.2 e mg/m³
Switzerland	Notation	C1 <sup>#</sup> <sub>A</sub> , SSc

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Provide local exhaust or general room ventilation to minimize vapour concentrations.

#### Hand protection:

Wear suitable gloves (EN 374). Nitrile rubber, 0.35 mm. Butyl rubber, 0.5 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection:

Wear safety glasses (EN 166).

#### Skin and body protection:

Wear suitable protective clothing.

#### **Respiratory protection:**

#### Safety Data Sheet

according to Regulation (EU) 2020/878

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Breathing apparatus with filter type P2.

#### Environmental exposure controls:

Avoid release to the environment.

#### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties				
Physical state	: Liquid			
Colour	: Colourless			
Odour	: No data available			
Melting point/freezing point	: No data available			
Boiling point or initial boiling point and boiling range	: No data available			
Flammability	: No data available			
Lower and upper explosion limit	: No data available			
Flash point	: No data available			
Auto-ignition temperature	: No data available			
Decomposition temperature	: No data available			
рН	: < 1.0			
Kinematic viscosity	: No data available			
Solubility	: No data available			
Partition coefficient n-octanol/water (log value)	: Not applicable			
Vapour pressure	: No data available			
Density and/or relative density	: No data available			
Relative vapour density	: No data available			
Particle size	: Not applicable			

#### 9.2. Other information

9.2.1.	Information with regard to physical haz	zaro	d classes
Explosiv	e properties	:	No explosive properties
Oxidising	g properties	:	No oxidising properties

#### 9.2.2. Other safety characteristics

No additional information available

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

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

#### 10.3. Possibility of hazardous reactions

May be corrosive to metals.

#### 10.4. Conditions to avoid

High temperatures.

#### 10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids. Metals.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. In case of fire: Toxic gases may be formed. Carbon dioxide. Carbon monoxide.

#### SECTION 11: Toxicological information

11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008	
Acute to	xicity : Not classified	

Based on available data, the classification criteria are not met

Sulphuric acid (7664-93-9)		
LD50 oral rat	2140 mg/kg	
LC50 inhalation rat	375 mg/m³	
Skin corrosion/irritation	: Not classified	

Based on available data, the classification criteria are not met

### Safety Data Sheet

according to Regulation (EU) 2020/878

Serious eye damage/irritation	: Not classified
	Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
	Based on available data, the classification criteria are not met
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
Specific target organ toxicity (repeated	: Not classified
exposure)	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met
11.2. Information on other hazards	
Potential adverse human health effects and	: Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms

SECT	ION 12: Ecological information	
12.1.	Toxicity	

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

Sulphuric acid (7664-93-9)	
LC50 fish	> 16 - < 28 mg/l 96 h, Lepomis macrochirus
EC50 crustacea	> 100 mg/l 48 h, Daphnia magna
EC50 algae	> 100 mg/l 72 h, Desmodesmus subspicatus
NOEC chronic fish	0.31 mg/l 213 d, Salvelinus fontinalis
NOEC chronic crustacea	0.15 mg/l, Tanytarsus dissimilis

#### 12.2. Persistence and degradability

Not required for inorganic substances.

#### 12.3. Bioaccumulative potential

Not required for inorganic substances.

12.4. Mobility in soil

#### No additional information available

#### 12.5. Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.	
Waste treatment methods	: Do not empty into drains. Dispose of this material and its container in a safe way.	
Waste code	: The waste code number according to the Ordinance on the European Waste Catalogue depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste producer.	
<b>SECTION 14: Transport information</b>		
In accordance with ADR / IMDG / IATA		

In accordance with ADR / IMDG / IATA		

#### Safety Data Sheet

according to Regulation (EU) 2020/878

14.2.UN proper shipping nameProper Shipping Name (ADR)Proper Shipping Name (IMDG)	: Not applicable : Not applicable
Proper Shipping Name (IATA)	: Not applicable
14.3. Transport hazard class(es) ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6 Special procautions for user	

## 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments Not applicable

#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK)	: WGK 1 - Slightly hazardous to water
WGK Remark	: Classification according to AwSV, Annex 1
Storage class (LGK)	: LGK 10 - 13
Employment restrictions	: Employment prohibitions for the protection of young people at work according to § 22 section 1(6) JArbSchG have to be observed.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information	
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Changes compared to the previous version	: -
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#### Abbreviations and acronyms:

	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	

## Safety Data Sheet

according to Regulation (EU) 2020/878

DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC/L	No Observed Adverse Effect Concentration/Level
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

#### Full text of H- and EUH-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H290	May be corrosive to metals.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	

SDS EU (REACH Annex II)

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.

# *i*mmus**mol**

# Assay Buffer BA E-2413

Safety Data Sheet

according to Regulation (EU) 2020/878

_		Date of issue: 14.07.2023	Revision date: -	Version/Replaced version: 1.0/-
SECT	ION 1: Identification of the	e substance/mixture and o	f the company/undertak	ina
1.1.	Product identifier			
Product	form	: Mixture		
Product	name	: Assay Buffer BA E-2413		
UFI		: -		
1.2.	Relevant identified uses of the	e substance or mixture and uses	advised against	
1.2.1.	Relevant identified uses			
Use of	he substance/mixture	: Laboratory reagent, Imm	unoassays	
		Use by professionals.		
1.2.2.	Uses advised against			
No add	tional information available			

#### 1.3. Details of the supplier of the safety data sheet

#### Supplier/Manufacturer

LDN Labor Diagnostika Nord GmbH & Co. KG Am Eichenhain 1 48531 Nordhorn, Germany T +49 (0)5921 81970 - F +49 (0)5921 8197 201 support@ldn.de

#### **Emergency telephone number** 1.4.

Country	Organisation/Company	Address	Emergency telephone number
Germany	LDN Labor Diagnostika Nord GmbH & Co. KG	Am Eichenhain 1	+49 (0) 5921-81970
		48531 Nordhorn, Germany	(Mo-Fr 8:00-16:00)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2	008 [CLP]
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Reproductive toxicity, Category 1B	H360FD

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

May damage fertility. Suspected of damaging the unborn child. Causes skin irritation. Causes serious eye irritation.

#### 2.2. Label elements

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

Hazard pictograms (CLP)

	GHS08 GHS07
Signal word (CLP)	: Danger
Hazardous ingredients	: Boric acid
Hazard statements (CLP)	<ul> <li>H315 - Causes skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H360FD - May damage fertility. Suspected of damaging the unborn child.</li> </ul>
Precautionary statements (CLP)	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection.</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention.</li> <li>P337+P313 - If eye irritation persists: Get medical advice and attention.</li> <li>P501 - Dispose of contents/container to an authorised waste collection point.</li> </ul>
Additional statements	: Restricted to professional users

Safety Data Sheet

according to Regulation (EU) 2020/878

Reduced labelling (contents of the package ≤ 125 ml) according to Regulation (EC) No. 1272/2008 [CLP]

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Hazard pictograms (CLP)

	GHS08 GHS07
Signal word (CLP)	: Danger
Hazardous ingredients	: Boric acid
Hazard statements (CLP)	: H360FD - May damage fertility. Suspected of damaging the unborn child.
Precautionary statements (CLP)	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection.</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention.</li> <li>P501 - Dispose of contents/container to an authorised waste collection point.</li> </ul>
Additional statements	: Restricted to professional users

#### 2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

3.1. Substances

#### Not applicable

## 3.2 Mixturos

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Boric acid (substance listed as REACH Candidate)	(CAS-Nr.) 10043-35-3 (EG-Nr.) 233-139-2 (Index-Nr.) 005-007-00-2	< 3	Repr.1B, H360FD
Sodium hydroxide; caustic soda	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	< 1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318
Name	Product identifier		concentration limits according to ion (EC) No. 1272/2008 [CLP]
Sodium hydroxide; caustic soda	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	$ \begin{array}{c} (0.5 \le C < 2) \mbox{ Skin Irrit. 2, H315} \\ (0.5 \le C < 2) \mbox{ Eye Irrit. 2, H319} \\ (2 \le C < 5) \mbox{ Skin Corr. 1B, H314} \\ (5 \le C \le 100) \mbox{ Skin Corr. 1A, H314} \end{array} $	

#### Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measure	9S
First-aid measures general	: IF exposed or concerned: Get medical advice/attention. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person Place the affected person in the recovery position.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Drink plenty of water as a precaution.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects	: May damage fertility. Suspected of damaging the unborn child.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
4.2 Indication of any immediate me	

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

 Treat symptomatically.

 SECTION 5: Firefighting measures

 5.1. Extinguishing media

 Suitable extinguishing media
 : Adapt extinguishing agents to the environment. Carbon dioxide. Foam. Dry extinguishing powder. Water spray.

 Unsuitable extinguishing media
 : Do not use a heavy water stream.

## Safety Data Sheet

according to Regulation (EU) 2020/878

according to Regulation (EU) 2020/878	
5.2. Special hazards arising from the s	ubstance or mixture
Hazardous decomposition products in case of fire	: Toxic gases may be formed. Boron oxide.
5.3. Advice for firefighters	
Firefighting instructions	<ul> <li>Prevent firefighting water from entering the environment. Use water spray or fog for cooling exposed containers.</li> </ul>
Protection during firefighting	: Use a self-contained breathing apparatus and also a protective suit.
SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective e	equipment and emergency procedures
General measures	: Stop leak if safe to do so. Ensure adequate air ventilation. Avoid contact with skin and eyes. Do not breathe vapours/spray.
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection.
6.2. Environmental precautions	
Prevent entry to sewers and public waters.	
6.3. Methods and material for contain	nent and cleaning up
Methods for cleaning up	: Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Dispose of in accordance with relevant local regulations.
6.4. Reference to other sections	
Exposure controls and personal protection, see	e section 8. Concerning disposal elimination after cleaning, see section 13.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing vapour/aerosol.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash it before reuse.
7.2. Conditions for safe storage, include	ding any incompatibilities
Storage conditions	: Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from direct sunlight. Keep out of frost. Store locked up.
Prohibitions on mixed storage	: Keep away from food, drink and animal feedingstuffs.
7.3. Specific end use(s)	

Laboratory reagent, Immunoassays

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

## 8.1. Control parameters

boric acid (10043-3	5-3)	
Belgium	Local name	Borate, composés inorganiques de # Boraat, anorganische verbindingen van
Belgium	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Belgium	OEL STEL (mg/m <sup>3</sup> )	6 mg/m³
Germany	TRGS 900 Local name	Borsäure und Natriumborate
Germany	TRGS 900 Occupational Exposure Limit Value (mg/m³)	0,5 E mg/m³
Germany	TRGS 900 Remark	2(I), AGS, Y, 10
Switzerland	Local name	Borsäure (calculated as B)
Switzerland	MAK (mg/m <sup>3</sup> )	1,8 e mg/m <sup>3</sup>
Switzerland	KZGW (mg/m <sup>3</sup> )	1,8 e mg/m <sup>3</sup>
Switzerland	Notation (CH)	R1 <sub>B</sub> , SS <sub>B</sub>
sodium hydroxide;	caustic soda (1310-73-2)	
Austria	Local name	Natriumhydroxid
Austria	MAK (OEL TWA) (mg/m <sup>3</sup> )	2 mg/m³ (E)

## Safety Data Sheet

according to Regulation (EU) 2020/878

sodium hydroxide; caustic	soda (1310-73-2)			
Austria	MAK (OEL STEL) (ppm	)	4 mg/m³ (E)	
Belgium	Local name		Sodium (hydroxyde de) # Natriumhydroxide	
Belgium	OEL TWA (mg/m <sup>3</sup> )		2 mg/m <sup>3</sup>	
Belgium	Remark		M	
Switzerland	Local name		Soude caustique / Natriumhydroxid	
Switzerland	MAK (mg/m <sup>3</sup> )		2 mg/m³ (i) / (e)	
Switzerland	KZGW (mg/m <sup>3</sup> )		2 mg/m³ (i) / (e)	
Switzerland	Notation (CH)		SSc	
boric acid (10043-35-3)				
DNEL/DMEL (Workers)				
Long-term - systemic effects	, inhalation	8,3 mg/m³		
Long-term - systemic effects	, dermal	392 mg/kg bodyweight/day		
DNEL/DMEL (General popu	ulation)			
Long-term - systemic effects	, inhalation	4,15 mg/m <sup>3</sup>		
Long-term - systemic effects	, dermal	196 mg/kg bodyweight/day		
Long-term - systemic effects	, oral	0,98 mg/kg bodyweight/day		
Acute - systemic effects, ora	I	0,98 mg/kg bodyweight/day		
PNEC (Water)				
PNEC aqua (freshwater)		2,9 mg/l		
PNEC aqua (marine water)		2,9 mg/l		
PNEC aqua (intermittent, freshwater)		13,7 mg/l		
PNEC (Soil)				
PNEC soil		5,7 mg/kg dwt		
PNEC (STP)				
PNEC sewage treatment plant		10 mg/l		
sodium hydroxide; caustic	soda (1310-73-2)			
DNEL/DMEL (Workers)				
Long-term - local effects, inhalation		1 mg/m³		
DNEL/DMEL (General popu	lation)			
Long-term - local effects, inha	Long-term - local effects, inhalation 1 mg/m <sup>3</sup>			

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Provide local exhaust or general room ventilation to minimize vapour concentrations.

#### Hand protection:

Wear suitable gloves (EN 374). Nitrile rubber, 0.35 mm. Butyl rubber, 0.5 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection:

Wear safety glasses (EN 166).

#### Skin and body protection:

Wear suitable protective clothing.

#### **Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Breathing apparatus with filter type P2.

#### Environmental exposure controls:

Avoid release to the environment.

Safety Data Sheet

according to Regulation (EU) 2020/878

#### SECTION 9: Physical and chemical properties

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

9.1. Information on basic physical and o	chemical properties
Physical state	: Liquid
Colour	: No data available
Odour	: No data available
Melting point/freezing point	: No data available
Boiling point or initial boiling point and boiling range	: No data available
Flammability	: No data available
Lower and upper explosion limit	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
рН	: 8.9 - 9.1
Kinematic viscosity	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (log value)	: Not applicable
Vapour pressure	: No data available
Density and/or relative density	: No data available
Relative vapour density	: No data available
Particle size	: Not applicable

#### 9.2. Other information

9.2.1.	Information with regard to physical haz	ar	d classes
Explosive	e properties	:	No explosive properties
Oxidising	properties	:	No oxidising properties

#### 9.2.2. Other safety characteristics

No additional information available

#### SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

None under normal use.

#### 10.4. Conditions to avoid

High temperatures.

#### 10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids.

#### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. In case of fire: Toxic gases may be formed. Boron oxide.

#### SECTION 11: Toxicological information

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

Acute toxicity

: Not classified

Based on available data, the classification criteria are not met

boric acid (10043-35-3)	
LD50 oral rat	> 3765 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 2 mg/m³
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
	Record on available data, the classification criteria are not mot

Based on available data, the classification criteria are not met

## Safety Data Sheet

according to Regulation (EU) 2020/878

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	: May damage fertility. Suspected of damaging the unborn child.
Specific target organ toxicity (single exposure)	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated	: Not classified
exposure)	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met
11.2. Information on other hazards	
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met

SECTION 12: Ecological information	n
12.1. Toxicity	
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
sodium hydroxide; caustic soda (1310-73-2	1
EC50 crustacea	40.4 mg/l 48 h, Ceriodaphnia sp.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
boric acid (10043-35-3)	

501	10 4014 (10040-00-0)	
Log	Pow	-1,09 (22 °C)
12.4.	Mobility in soil	

No additional information available

12.5. Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### **Endocrine disrupting properties** 12.6.

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.	
Waste treatment methods	: Do not empty into drains. Dispose of this material and its container in a safe way.	

Waste code

: Do not empty into drains. Dispose of this material and its container in a safe way.

: The waste code number according to the Ordinance on the European Waste Catalogue depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste producer.

#### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA	
14.1. UN number or ID number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable

Safety Data Sheet

according to Regulation (EU) 2020/878

#### IMDG

: Not applicable
: Not applicable
: Not applicable
: Not applicable
: Not applicable
: No
: No
: No supplementary information available

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains substances on the REACH candidate list: boric acid (10043-35-3)

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK)	: WGK 1 - Slightly hazardous to water
WGK Remark	: Classification according to AwSV, Annex 1
Storage class (LGK)	: LGK 6.1 - Non-inflammable toxic materials
Employment restrictions	<ul> <li>Employment prohibitions for the protection of young people at work according to § 22 section 1(6) JArbSchG have to be observed. Observe restrictions according Act on the Protection of Working Mothers (MuSchG).</li> </ul>

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

# SECTION 16: Other information Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

: -

Changes compared to the previous version

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)

## Safety Data Sheet

according to Regulation (EU) 2020/878

LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC/L	No Observed Adverse Effect Concentration/Level
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

#### Full text of H- and EUH-phrases:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H360FD	May damage fertility. Suspected of damaging the unborn child.

SDS EU (REACH Annex II)

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.

# *i*mmus**mol**

# D-Reagent BA E-2446

Safety Data Sheet

according to Regulation (EU) 2020/878

		Date of issue: 14.07.2023	Revision date: -	Version/Replaced version: 1.0/-
SECT	ION 1: Identification of the	e substance/mixture and o	f the company/undertak	king
1.1.	Product identifier			
Produc	t form	: Mixture		
Produc	t name	: D-Reagent BA E-2446		
UFI		: -		
1.2.	Relevant identified uses of th	e substance or mixture and uses	advised against	
1.2.1.	Relevant identified uses			
Use of	the substance/mixture	: Laboratory reagent, Imm	unoassays	
		Use by professionals.		
1.2.2.	Uses advised against			
No add	itional information available			

#### 1.3. Details of the supplier of the safety data sheet

#### Supplier/Manufacturer

LDN Labor Diagnostika Nord GmbH & Co. KG Am Eichenhain 1 48531 Nordhorn, Germany T +49 (0)5921 81970 - F +49 (0)5921 8197 201 support@ldn.de

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency telephone number
Germany	LDN Labor Diagnostika Nord GmbH & Co. KG	Am Eichenhain 1	+49 (0) 5921-81970
		48531 Nordhorn, Germany	(Mo-Fr 8:00-16:00)

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1A H317

Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation H335

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction. May cause respiratory irritation.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)

	GHS07
Signal word (CLP)	: Warning
Hazardous ingredients	: Glutaraldehyde
Hazard statements (CLP)	: H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing mist/vapours/spray.</li> <li>P280 - Wear protective gloves.</li> <li>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P312 - Call a POISON CENTER/doctor if you feel unwell.</li> <li>P332+P313 - If skin intertation or rash accurs: Cot modical advice/attention.</li> </ul>

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P501 - Dispose of contents/container to an authorised waste collection point.

Safety Data Sheet

according to Regulation (EU) 2020/878

Reduced labelling (contents of the package $\leq 12$	125 ml) according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	

	GHS07
Signal word (CLP)	: Warning
Hazardous ingredients	: Glutaraldehyde
Hazard statements (CLP)	: H317 - May cause an allergic skin reaction.
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing mist/vapours/spray.</li> <li>P280 - Wear protective gloves.</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P501 - Dispose of contents/container to an authorised waste collection point.</li> </ul>

#### 2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dimethyl sulfoxide	(CAS no) 67-68-5 (EC no) 200-664-3	> 95	Not classified
Glutaral, glutaraldehyde, 1,5-pentanedial substance listed as REACH Candidate	(CAS no) 111-30-8 (EC no) 203-856-5 (EC index no) 605-022-00-X	< 1	Acute Tox. 2 (Inhalation), H330 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 EUH071

Name	Product identifier	Specific concentration limits according to Regulation (EC) No. 1272/2008 [CLP]
Glutaral, glutaraldehyde, 1,5-pentanedial substance listed as REACH Candidate	(CAS no) 111-30-8 (EC no) 203-856-5 (EC index no) 605-022-00-X	(0.5 ≤ C < 5) STOT SE 3, H335

#### Full text of H-statements: see section 16 SECTION 4: First aid measures

SECTION 4. Thist alu measures	
4.1. Description of first aid measur	res
First-aid measures general	: Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medica advice/attention if you feel unwell
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Drink water as a precaution.
4.2. Most important symptoms and	d effects, both acute and delayed
Symptoms/effects after inhalation	: May cause respiratory irritation. May produce an allergic reaction.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
<b>4.3.</b> Indication of any immediate m Treat symptomatically.	edical attention and special treatment needed
SECTION 5: Firefighting measur	res
5.1. Extinguishing media	
Outline to be a setting out of the second set of the	Adapted at the middle and the the second second of the distribution. Descention with the second

## Safety Data Sheet

according to Regulation (EU) 2020/878

according	to Regulation (EO) 2020/878	
5.2.	Special hazards arising from the su	bstance or mixture
Hazardo fire	ous decomposition products in case of	: Toxic gases may be formed. Carbon dioxide. Carbon monoxide. Sulphur oxides.
5.3.	Advice for firefighters	
Firefight	ting instructions	: Prevent firefighting water from entering the environment. Use water spray or fog for cooling exposed containers.
Protecti	on during firefighting	: Use a self-contained breathing apparatus and also a protective suit.
SECT	ON 6: Accidental release mea	sures
6.1.	Personal precautions, protective eq	uipment and emergency procedures
General	measures	: Stop leak if safe to do so. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours/spray.
6.1.1.	For non-emergency personnel	
Emerge	ncy procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protecti	ve equipment	: Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection.
6.2.	Environmental precautions	
Prevent	entry to sewers and public waters.	
6.3.	Methods and material for containme	ent and cleaning up
Methods	s for cleaning up	: Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Dispose of in accordance with relevant local regulations.
6.4.	Reference to other sections	
Exposu	re controls and personal protection, see	section 8. Concerning disposal elimination after cleaning, see section 13.
SECT	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	ions for safe handling	: Ensure good ventilation of the work station. Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aeroso

Hygiene measures

personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosc
 Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, includi	Conditions for safe storage, including any incompatibilities		
Storage conditions	: Store in original container. Keep container tightly closed. Store in a dry, cool, well-ventilated place. Protect from direct sunlight. Store locked up.		
Prohibitions on mixed storage	: Keep away from food, drink and animal feedingstuffs.		

#### 7.3. Specific end use(s)

Laboratory reagent, Immunoassays.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

Dimethyl sulfoxide (6	7-68-5)	
Austria	Local name	Dimethylsulfoxid
Austria	MAK (OEL TWA) (mg/m <sup>3</sup> )	160 mg/m <sup>3</sup>
Austria	MAK (OEL TWA) (ppm)	50 ppm
Austria	Remark (AT)	Н
Germany	TRGS 900 Local name	Dimethylsulfoxid (DMSO)
Germany	TRGS 900 Occupational Exposure Limit Value (mg/m³)	160 mg/m³
Germany	TRGS 900 Occupational Exposure Limit Value (ppm)	50 ppm
Germany	TRGS 900 Remark	2(I), DFG, Z, H
Switzerland	Local name	Diméthylsulfoxyde (DMSO) / Dimethylsulfoxid (DMSO)
Switzerland	MAK (mg/m <sup>3</sup> )	160 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	50 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	320 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	100 ppm
Switzerland	Notation (CH)	Н

Safety Data Sheet according to Regulation (EU) 2020/878

Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)			
Austria Local name		Glutardialdehyd (Glutaral; 1,5-Pentandial)	
Austria	MAK (OEL TWA)	(mg/m³)	0.2 mg/m <sup>3</sup>
Austria	MAK (OEL TWA) (ppm)		0.05 ppm
Austria	MAK (OEL STEL)	(mg/m³)	0.2 mg/m <sup>3</sup>
Austria	MAK (OEL STEL)	(ppm)	0.05 ppm
Austria	Remark (AT)		Sah
Belgium	Local name		Aldéhyde glutarique # Glutaaraldehyde
Belgium	OEL TWA (mg/m <sup>3</sup>	)	0.21 mg/m <sup>3</sup>
Belgium	OEL TWA (ppm)		0.05 ppm
Belgium	Remark (BE)		м
Germany	TRGS 900 Local r	ame	Glutaral
Germany	(mg/m³)	ational Exposure Limit Value	0.2 mg/m <sup>3</sup>
Germany		ational Exposure Limit Value (ppm)	0.05 ppm
Germany	TRGS 900 Remar	k	2(I), AGS, Sah, Y
Switzerland	Local name		Aldéhyde glutarique / Glutardialdehyd [Glutaral, 1,5- Pentandial, Glutaraldehyd]
Switzerland	MAK (mg/m <sup>3</sup> )		0.21 mg/m <sup>3</sup>
Switzerland	MAK (ppm)		0.05 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )		0.42 mg/m <sup>3</sup>
Switzerland	KZGW (ppm		0.1 ppm
Switzerland	Notation (CH)		S, SSc
Dimethyl sulfoxide (67-68-5	5)		
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal 365 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation 75 mg/m <sup>3</sup>		75 mg/m³	
Long-term - local effects, inhalation 17.67 mg/m <sup>3</sup>			
DNEL/DMEL (General popu	llation)		
Long-term - systemic effects,	, oral	1.67 mg/kg bodyweight/day	
Long-term - systemic effects,	, inhalation	56 mg/m³	
Long-term - systemic effects,	, dermal	178 mg/kg bodyweight/day	
		3.13 mg/m³	
PNEC (Water)			
PNEC aqua (freshwater)		17 mg/l	
PNEC aqua (marine water)		1.7 mg/l	
PNEC (Sediment)			
PNEC sediment (freshwater)		61.4 mg/kg dry weight	
PNEC sediment (marine water)		6.14 mg/kg dry weight	
PNEC (Soil)			
PNEC soil 2.32 mg/kg dry weight			
PNEC (Oral)			
PNEC oral (secondary poisoning)     0.7 g/kg food			
PNEC (STP)			
PNEC sewage treatment plant     11 mg/l			
Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)			
. ,	DNEL/DMEL (Workers)		
Acute - local effects, inhalation 0.42 mg/r		Ŭ,	
		6.25 mg/kg bodyweight/day	
Long-term - local effects, inhalation     0.21 mg/m³			

### Safety Data Sheet

according to Regulation (EU) 2020/878

Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)		
DNEL/DMEL (General population)		
Long-term - systemic effects, oral	0.07 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.003 mg/l	
PNEC aqua (marine water)	0 mg/l	
PNEC aqua (freshwater, intermittent)	0.006 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0.091 mg/kg dry weight	
PNEC sediment (marine water)	0.009 mg/kg dry weight	
PNEC (Soil)		
PNEC soil	0.21 mg/kg dry weight	
PNEC (STP)		
PNEC sewage treatment plant	0.8 mg/l	

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Provide local exhaust or general room ventilation to minimize vapour concentrations.

#### Hand protection:

Wear suitable gloves (EN 374). Nitrile rubber, 0.35 mm, Butyl rubber, 0.5 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection:

Wear safety glasses (EN 166).

#### Skin and body protection:

Wear suitable protective clothing.

#### **Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Breathing apparatus with filter type A.

#### Environmental exposure controls:

Avoid release to the environment.

#### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and o	chemical properties
Physical state	: Liquid
Colour	: Colourless
Odour	: No data available
Melting point/freezing point	: No data available
Boiling point or initial boiling point and boiling range	: No data available
Flammability	: No data available
Lower and upper explosion limit	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: No data available
Kinematic viscosity	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (log value)	: Not applicable
Vapour pressure	: No data available
Density and/or relative density	: No data available
Relative vapour density	: No data available
Particle size	: Not applicable

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosive properties : No explosive properties.

#### Safety Data Sheet

according to Regulation (EU) 2020/878

Oxidising properties

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

#### 10.3. Possibility of hazardous reactions

None under normal use.

#### 10.4. Conditions to avoid

High temperatures.

#### 10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids.

#### 10.6. Hazardous decomposition products

No hazardous decomposition products known. In case of fire: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Sulphur oxides.

: No oxidising properties.

#### SECTION 11: Toxicological information

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

Acute toxicity	: Not classified
	. Not olubbiliou

Based on available data, the classification criteria are not met

Dimethyl sulfoxide (67-68-5)		
LD50 oral rat	28300 mg/kg	
LD50 dermal rat	~ 40000 mg/kg	
LC50 inhalation rat	> 5.33 mg/l air, 4 h	
Glutaral, glutaraldehyde, 1,5-pentanedial (11	1-30-8)	
LD50 oral rat	77 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg (50 % in solution)	
LC50 inhalation rat	0.28 - 0.39 mg/l air, 4 h (50 % in solution)	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	Based on available data, the classification criteria are not met : Not classified	
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met : May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	Based on available data, the classification criteria are not met : Not classified	
Reproductive toxicity	<ul> <li>Based on available data, the classification criteria are not met</li> <li>Not classified</li> <li>Based on available data, the classification criteria are not met</li> </ul>	
Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	<ul> <li>May cause respiratory irritation.</li> <li>Not classified</li> <li>Based on available data, the classification criteria are not met</li> </ul>	
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met	
11.2.Information on other hazardsPotential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met	
SECTION 12: Ecological information 12.1. Toxicity		

Chronic aquatic toxicity	: Not classified
Dimethyl sulfoxide (67-68-5)	
LC50 fish	25000 mg/l 96 h, Danio rerio
EC50 daphnia	24600 mg/l 48 h, Daphnia magna

: Not classified

Acute aquatic toxicity

# D-Reagent BA E-2446 Safety Data Sheet

Dimetry Sufficiency         17000 mg/ 72 h. Raphidocelis subcapitata           EC50 algae         17000 mg/ 72 h. Raphidocelis subcapitata           EUcso fals         16 mg/ 80 h. Oncorhynchus mykiss           EC50 algae         0.375 mg/ 72 h. Desmodesmus subspicatus           NDEC Ghn         16 mg/ 97 d. Oncorhynchus mykiss           EC60 daphnia         5 mg/ 72 h. Desmodesmus subspicatus           NDEC daphnia         5 mg/ 72 h. Desmodesmus subspicatus           NDEC daphnia         5 mg/ 72 h. Desmodesmus subspicatus           12.2. Persistence and degradability         Not readily biodegradabio.           Biodegradation         31 %, 28 d           Oltrard, glutaraldehyde, 1.5 pentanedia (111-30-8)         Persistence and degradability           Persistence and degradability         Readily biodegradabie.           Biodegradation         90 - 100 %, 28 d (50 % in solution)           12.3. Bioaccumulative potential         Dimetry suffoxide (67-88-5)           Partition coefficient n-octanolivater (Log Pox)         -1.35 (20 °C)           Editarial glutaraldehyde, 1.5 pentanedial (111-30-8)         Partition coefficient n-octanolivater (Log Pox)           12.3. Bioaccumulative optential         Dimetry suffoxide (67-88-5)           Partition coefficient n-octanolivater (Log Pox)         -1.35 (20 °C)           12.4. Mobility in soil         No additoal i		
Glutaral, glutaraldehyde, 1,3-pentanedial (111-30-8)         LC50 lish       10 mgl 98 h, Oncorhynchus mykiss         EC50 daphnia       4.6 mgl 48 h, Dahnia magna         EC50 daphnia       1.6 mgl 97 d, Dosennodesmus subspicatus         NOEC fish       1.6 mgl 97 d, Dosennodesmus subspicatus         NOEC dapae       0.237 mgl 72 h, Desmodesmus subspicatus         NOEC dapae       0.225 mgl 72 h, Desmodesmus subspicatus         12.2       Persistence and degradability         Dimethyl sulfoxide (67-86-5)       Persistence and degradability         Persistence and degradability       Not readily biodegradable.         Biodegradation       1.3 %, 28 d         Biodegradation       90 - 100 %, 28 d (50 % in solution)         12.3       Bioaccumulative potential         Dimethyl sulfoxide (67-86-5)       Partition coefficient n-octanol/water (Log Pow)         Partition coefficient n-octanol/water (Log Pow)       -1.35 (20 °C)         Glutaral, glutaraldehyde, 1.5-pentanedial (111-30-8)       Partition coefficient n-octanol/water (Log Pow)         Partition coefficient n-octanol/water (Log Pow)       -1.35 (20 °C)         Glutaral, glutaraldehyde, 1.5-pentanedial Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.         12.6       Rodcrine disoruting properties         No additional information available       Ectored dis	• • •	17000 mg/l 72 h, Raphidocelis subcapitata
LCS0 fish       10 mg1 96 h. Oncortynchus mykiss         ECS0 dephnia       4.6 mg1 48 h. Dephnis magna         ECS0 dephnia       0.375 mg1 72 h. Desmodesmus subspicatus         NOEC fish       1.6 mg1 97 d. Oncortynchus mykiss         NOEC dephnia       5 mg1 21 d. Dephnis magna         NOEC dephnia       13 mg1 21 d. Dephnis magna         NOEC dephnia       13 mg1 21 d. Dephnis magna         NOEC dephnia       13 mg1 21 d. Dephnis magna         Dimothyl sulfoxide (67-88-5)       Persistence and degradability         Biodegradation       13 % 28 d         Biodegradation       13 % 28 d         Biodegradation       9 - 100 %, 28 d (30 % in solution)         12.3       Bioaccumulative potential         Dimothyl subfoxide (67-85-5)       Partition coefficient n-ocianolwater (Log Pow)         1.35 (20 °C)       Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)         Partition coefficient n-ocianolwater (Log Pow)       -1.35 (20 °C)         12.4.       Mobility in soil         Vo additional information available       2.5         12.5.       Results of PBT and vPVB assessment	Ŭ	
ECS0 digae       4.6 mg/l 49 h. Daphnia magna         ErC50 digae       0.375 mgl 72 h. Desmodesmus subspicatus         NOEC dighnia       5 mgl 27 d. Ocentrynchus mykiss         NOEC dighnia       5 mgl 27 d. Ocentrynchus mykiss         NOEC dighnia       5 mgl 27 d. Desmodesmus subspicatus         12.2       Persistence and degradability         Dimethyl sulfoxide (67-88-6)       Persistence and degradability         Persistence and degradability       Not readily biodegradable.         Biodegradation       31 %. 28 d         Glutaral, glutaraldehyde, 1,5-pentanedia (111-30-8)       Persistence and degradability         Persistence and degradability       Readily biodegradable.       Biodegradation         21.3.       Bioaccumulative potential       Dimethyl sulfoxide (67-68-5)         Partition coefficient n-octanol/water (Log Pow)       -0.36 (pH 7, 23 °C)       C)         21.4.       Mobility in soil       vo additional information available       C)         22.5.       Results of PBT and VPB assessment       C       C)         21.6.       Endocrine disrupting properties       Vo additional information available       C)         22.7.       Other adverse effects       S)       No adverse diffection       S)         21.1.       Waste treatment methods       : Do not emp		
ErCB0 algae       0.375 mpl 72 h. Desmodesmus subspicatus         NOEC fish       1.6 mpl 74 d. Oncortynchus mykiss         NOEC dapnia       5 mpl 21 d. Daphnia magna         NOEC dapae       0.025 mgl 72 h. Desmodesmus subspicatus         12.2       Persistence and degradability       Not readily biodegradable.         Biodegradation       31 %. 28 d         Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)       Persistence and degradability         Readily biodegradabie.       Biodegradation         Biodegradation       90 - 1.35 (20 °C)         Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)       Persistence and degradability         Partition coefficient n-octanol/water (Log Pow)       -1.35 (20 °C)         Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)       Partition coefficient n-octanol/water (Log Pow)         Partition coefficient n-octanol/water (Log Pow)       -0.36 (pH 7, 23 °C)         2.4       Mobility in soil       voir y Persistent and very Bioaccumulative (vPvB) criteria.         2.5.       Results of PBT and vPvB assessment       voir (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.         2.6.       Endocrine disrupting p		
NOEC fish       1.6 mg/l 2r d, Oncorhynchus mykiss         NOEC alge       0.025 mg/l 21 d, Daphnia magna         NOEC alge       0.025 mg/l 21 h, Desmodesmus subspicatus         12.       Persistence and degradability         Dimethyl sulfoxide (67-68-5)         Persistence and degradability       Net readily biodegradable.         Biodegradation       31 %, 28 d         Glutaral, glutaral(dely/de, 1, 5-pentandlal (111-30-8)       Persistence and degradability         Persistence and degradability       Readily biodegradable.         Biodegradation       90 - 100 %, 28 d (30 % in solution)         21.3.       Bioaccumulative potential         Dimethyl sulfoxide (67-68-5)       Partition coefficient n-octanol/water (Log Pow)         -1.35 (20 °C)       Glutaral, glutaral(dely/de, 1, 5-pentandlal (111-30-8)         Partition coefficient n-octanol/water (Log Pow)       -1.35 (20 °C)         Glutaral, glutaral(dely/de, 1, 5-pentandlal (111-30-8)       Partition coefficient n-octanol/water (Log Pow)         Valuaral, glutaral(dely/de, 1, 5-pentandlal (111-30-8)       Partition coefficient n-octanol/water (Log Pow)         Valuaral, glutaral(dely/de, 1, 5-pentandlal (111-30-8)       Partition coefficient n-octanol/water (CPBT), very Persistent and very Bioaccumulative (vPvB) criteria.         12.5.       Readcrine disrupting properties       Vo additional information available	•	
NDEC daphnia         5 mgl 21 d. Daphnia magna           NDEC dagae         0.025 mgl 72 h. Desmodesmus subspicatus           NDEC dagae         0.025 mgl 72 h. Desmodesmus subspicatus           12.0         Persistence and degradability           Dimethyl sulfoxide (67-68-5)         Persistence and degradability           Biodegradation         31 %, 28 d           Glutaral, glutaraldehyde, 1,5 pentanedial (111-30-8)         Persistence and degradability           Persistence and degradability         Readily biodegradable.           Biodegradation         90 - 100 %, 28 d (50 % in solution)           12.3         Bioaccumulative potential           Dimethyl sulfoxide (67-68-5)         Persistence and degradability           Partition coefficient n-octanol/water (Log Pow)         1.35 (20 °C)           Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)         Partition coefficient n-octanol/water (Log Pow)           Partition coefficient n-octanol/water (Log Pow)         -0.36 (pH 7, 23 °C)           12.4         Mobility in soil         Void fulfiling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.           12.5         Results of PET and vPvB assessment         Void (PMI) (riteria.           Via dubilitional information available         ECTION 133 Disposal considerations           13.1         Wasto treatment methods		
NOEC algae     0.025 mgl 72 h, Desmodesmus subspicatus       12.2. Persistence and degradability     Not readily biodegradable.       Dimethy subfockel (67-88-5)     Persistence and degradability       Paraistence and degradability     Not readily biodegradable.       Biodegradation     31 %, 28 d       Ofutaral, glutaraldohyde, 1.5-pentanedial (111-30-8)       Paraistence and degradability     Readily biodegradable.       Biodegradation     90 - 100 %, 28 d (50 % in solution)       21.3. Bioaccumulative potential     Dimethy sulfoxide (7-68-5)       Partition coefficient n-cotanol/water (Log Pow)     -1.35 (20 °C)       Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-4)     Partition coefficient n-cotanol/water (Log Pow)       2.3. Bioaccumulative potential     Out of the componentian available       12.4. Mobility in soil     vo additional information available       12.5. Results of PBT and vPVB assessment     vor glutaral dehyde, 1,5-pentanedial (111-30-4)       vo additional information available     Sectorine discrupting properties       vo additional information available     Sectorine discrupting properties       vo additional information available     Sectorine discrupting properties       vo additional information available     Sectorine discrupting the vaste producer and can threfore vary for any glup enduct. The waste or number is therefore to be gleaned separately from each waste producer.       Sectorion 143: Disposal considerations		
2.2. Persistence and degradability       Dimethyl sulfoxide (67-86-5)         Persistence and degradability       Not readily biodegradable.         Biodegradation       31 %, 28 d         Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-5)       Persistence and degradability         Biodegradation       90 - 100 %, 28 d (50 % in solution)         2.3. Bioaccumulative potential       Dimethyl sulfoxide (67-68-5)         Partition coefficient n-octanol/water (Log Pow)       -1.35 (20 °C)         Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)       Partition coefficient n-octanol/water (Log Pow)         Partition coefficient n-octanol/water (Log Pow)       -0.36 (pH 7, 23 °C)         12.4. Mobility in soli       Vo additional information available         2.5. Results OF BT and vPvB assessment       Not (PFT), very Persistent and very Bioaccumulative (vPvB) criteria.         2.6. Iso Corrido discrupting properties       Vo additional information available         2.7. Other adverse affects       So considerations         Statis tratement methods       : Dispose in a safe manner in accordance with loca/national regulations.         Vaste treatment methods       : Do not empty into drains. Dispose of this material and its container in a safe way.         Vaste treatment methods       : Do not empty into drains. Dispose of the Ordinance on the European Waste Catalogue depends on the waste producer and can therefore vary for any given product. The waste co		
Dimethyl sulfoxide (87-88-5)           Persistence and degradability         Not readily biodegradabie.           Biodegradation         31 %, 28 d           Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)         Persistence and degradability           Persistence and degradability         Readily biodegradable.           Biodegradation         90 - 100 %, 28 d (50 % in solution)           2.3.         Bioaccumulative potential           Dimethyl sulfoxide (67-86-5)         Persistence and degradability.           Partition coefficient n-octanol/water (Log Pow)         -1.35 (20 °C)           Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)         Partition coefficient n-octanol/water (Log Pow)           Partition coefficient n-octanol/water (Log Pow)         -0.36 (pH 7, 23 °C)           2.4.         Mobility in soil         os additional information available           2.5.         Results of PBT and VPVB assessment         sold (pH 7, 23 °C)           8.0 additional information available         ECTION 13: Disposal considerations         sold (pH 7, 23 °C)           8.1.         Waste treatment methods         sold (pH 7, 23 °C)         sold (pH 7, 23 °C)           9.2.         Che adverse effects         so additional information available         sold (pH 7, 23 °C)           8.2.         Che adverse affects         sold additional information available<		
Persistence and degradability       Not readily biodegradable.         Biodegradation       31 %, 28 d         Glutaral, glutaridebyde, 1,5-pentanedial (111-30-8)       Persistence and degradability         Readily biodegradable.       Biodegradability         Biodegradation       90 - 100 %, 28 d (50 % in solution)         12.3.       Bioaccumulative potential         Dimetry sufficient no-catanol/water (Log Pow)       -1.35 (20 °C)         Glutaral, glutaridebyde, 1,5-pentanedial (111-30-8)       Pertition coefficient no-catanol/water (Log Pow)         -1.3.       Bioaccumulative potential       Partition coefficient no-catanol/water (Log Pow)         -1.3.       Bioaccumulative potential       Partition coefficient no-catanol/water (Log Pow)         -1.3.       Composition and the potential information available       Composition and potential information available         2.6.       Readily properties       Readily biodegradability in a solutional information available         2.7.       Other adverse effects       Dispose in a safe manner in accordance with local/national regulations.         2.8.       Readily biodegradability       Dispose in a safe manner in accordance with local/national regulations.         2.9.       Dispose in a safe manner in accordance with local/national regulations.         2.9.       Dispose in a safe manner in accordance with local/national regulations.		
Biodegradation       31 %, 28 d         Clutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)         Persistence and degradability       Readily biodegradable.         Biodegradation       90 - 100 %, 28 d (50 % in solution)         12.3.       Bioaccumulative potential         Dimethyl sulfoxide (67-68-5)         Partition coefficient n-octanol/water (Log Pow)       -1.35 (20 °C)         Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)         Partition coefficient n-octanol/water (Log Pow)       -0.36 (pH 7, 23 °C)         12.4.       Mobility in soil         No additional information available       12.5.         12.6.       Endocrine disrupting properties         No additional information available       12.7.         12.7.       Other adverse effects         No additional information available       12.7.         12.7.       Other adverse effects         No additional information available       12.5.         12.7.       Other adverse effects         No additional information available       12.7.         12.7.       Other adverse effects         Naste treatment methods       : Dispose in a safe manner in accordance with local/national regulations.         Waste code       : Dispose of this material and its container in a safe way.         Nas		Not readily biodegradable
Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)         Persistence and degradability       Readily biodegradable.         Biodegradation       90 - 100 %, 28 d (50 % in solution)         12.3. Bioaccumulative potential         Dimethyl sulfoxide (67-86-5)         Partition coefficient n-octanol/water (Log Pow)       -1.35 (20 °C)         Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)         Partition coefficient n-octanol/water (Log Pow)       -0.36 (pH 7, 23 °C)         12.4. Mobility in soil         No additional information available         12.5. Results of PBT and vPvB assessment         Vot fulfiling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.         12.6. Endocrine disrupting properties         Vo additional information available         12.7. Other adverse effects         Vo additional information available         12.7. Other adverse effects         Vo additional information available         12.1. Waste treatment methods         Regional legislation (waste)       : Dispose in a safe manner in accordance with local/national regulations.         Waste code       : Do not empty into drains. Dispose of this material and its container in a safe way.         Waste code       : Do not empty into drains. Dispose of this material and its containere in a safe way.         Waste code <td></td> <td></td>		
Persistence and degradability       Readily biodegradable.         Biodegradation       90 - 100 %, 28 d (50 % in solution)         12.3.       Bioaccumulative potential         Dimethy sufficient n-octanol/water (Log Pow)       -1.35 (20 °C)         Glutran, glutrandehyde, 1,5-pentanedial (111-30-8)         Partition coefficient n-octanol/water (Log Pow)       -0.36 (pH 7, 23 °C)         12.4.       Mobility in soil         Vo additional information available       -0.36 (pH 7, 23 °C)         12.5.       Results of PBT and vPvB assessment         Vot fulfiling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.         12.6.       Endocrine disrupting properties         Vo additional information available       -0.0000 (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.         12.7.       Other adverse effects       Vo additional information available         SectorION 13: Disposal considerations       :       Dispose in a safe manner in accordance with local/national regulations.         Waste treatment methods       :       Do not empty into drains. Dispose of this material and its container in a safe way.         Naste code       : The waste code number according to the Ordinance on the European Waste Catalogue depends on the waste producer.         SECTION 14: Transport information       : Not applicable         JN-No.		
Biodegradation       90 - 100 %, 28 d (50 % in solution)         12.3.       Bioaccumulative potential         Dimethyl sulfoxide (67-88-5)         Partition coefficient n-octanol/water (Log Pow)       -1.35 (20 °C)         Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)         Partition coefficient n-octanol/water (Log Pow)       -0.36 (pH 7, 23 °C)         12.4.       Mobility in soil         Vo additional information available       1-0.36 (pH 7, 23 °C)         12.6.       Endocrine disrupting properties         No additional information available       1-0.36 (pH 7, 23 °C)         12.6.       Endocrine disrupting properties         No additional information available       1-0.36 (pH 7, 23 °C)         12.6.       Endocrine disrupting properties         No additional information available       1-0.36 (pH 7, 23 °C)         SECTION 13: Disposal considerations       1-0.36 (pH 7, 23 °C)         13.1.       Waste treatment methods       2         Regional legislation (waste)       2       Dispose in a safe manner in accordance with local/national regulations.         Waste treatment methods       2       Do not empty into drains. Dispose of this material and its container in a safe way.         Naste code       2       The waste code number according to the Ordinance on the European Waste Catalogue depends on the waste producer. </td <td></td> <td></td>		
2.3.       Bloaccumulative potential         Dimethyl suffoxide (67-68-5)         Partition coefficient n-octanol/water (Log Pow)       -1.35 (20 °C)         Olutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)         Partition coefficient n-octanol/water (Log Pow)       -0.36 (pH 7, 23 °C)         12.4.       Mobility in soil         No additional information available       2.5.         12.5.       Results of PBT and VPVB assessment         Not duffiling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPVB) criteria.         12.6.       Endocrine disrupting properties         No additional information available       2.7.         12.7.       Other adverse effects         No additional information available       2.5.         12.7.       Other adverse effects         No additional information available       2.5.         12.7.       Other adverse effects         No additional information available       2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		
Dimethyl sulfoxide (67-68-5)           Partition coefficient n-octanol/water (Log Pow)         1.35 (20 °C)           Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)           Partition coefficient n-octanol/water (Log Pow)         -0.36 (pH 7, 23 °C)           12.4.         Mobility in soil           No additional information available         -0.36 (pH 7, 23 °C)           12.4.         Mobility in soil           Not duffiling Persistent, Bicaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.           12.6.         Endocrine disrupting properties           No additional information available		90 - 100 %, 28 a (50 % In solution)
Partition coefficient n-octanol/water (Log Pow)       -1.35 (20 °C)         Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)         Partition coefficient n-octanol/water (Log Pow)       -0.36 (pH 7, 23 °C)         12.4.       Mobility in soil         No additional information available       1.35 (20 °C)         12.4.       Mobility in soil         No additional information available       1.35 (20 °C)         12.6.       Results of PBT and vPvB assessment         Not fulfiling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.         12.6.       Endocrine disrupting properties         No additional information available       20 × C         12.7.       Other adverse effects         No additional information available       20 × C         SECTION 13: Disposal considerations       131.         13.1.       Waste treatment methods       : Dispose in a safe manner in accordance with local/national regulations.         Waste code       : Dispose of this material and its container in a safe way.         Waste code       : Do not empty into drains. Dispose of this material and its container in a safe way.         Waste code       : Do not empty into drains. Dispose of this material and its container.         In waste producer.       The waste producer and can therefore vary for any given product. The waste or num		
Glutaral, glutaraldehyde, 1,5-pentanedial (111-30-8)         Partition coefficient n-octanol/water (Log Pow)       -0.36 (pH 7, 23 °C)         12.4.       Mobility in soil         Vo additional information available       12.5.         12.5.       Results of PBT and vPvB assessment         Vo tafufilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.         12.6.       Endocrine disrupting properties         Vo additional information available       12.7.         12.7.       Other adverse effects         Vo additional information available       12.7.         SECTION 13.2 Disposal considerations         13.1.       Waste treatment methods         Regional legislation (waste)       : Dispose in a safe manner in accordance with local/national regulations.         Waste treatment methods       : Do not empty into drains. Dispose of this material and its container in a safe way.         Vaste code       : The waste code number according to the Ordinance on the European Waste Catalogue depends on the waste producer and can therefore vary for any given product. The waste orden number is therefore to be gleaned separately from each waste producer.         SECTION 14: Transport information       : Not applicable         JN-No. (ADR)       : Not applicable         JN-No. (ADR)       : Not applicable         JN-No. (MDG)       : Not a		
Partition coefficient n-octanol/water (Log Pow)       -0.36 (pH 7, 23 °C)         12.4.       Mobility in soil         No additional information available       12.5.         12.5.       Results of PBT and vPvB assessment         Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.         12.6.       Endocrine disrupting properties         No additional information available       10.00000000000000000000000000000000000	Partition coefficient n-octanol/water (Log Po	эж)   -1.35 (20 °С)
12.4.       Mobility in soil         No additional information available         12.5.       Results of PBT and vPVB assessment         Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.         12.6.       Endocrine disrupting properties         No additional information available       Endocrine disrupting properties         12.7.       Other adverse effects         No additional information available       EECTION 13: Disposal considerations         13.1.       Waste treatment methods         Regional legislation (waste)       :         Dispose in a safe manner in accordance with local/national regulations.         Waste treatment methods       :         Regional legislation (waste)       :         Dispose in a safe manner in accordance with local/national regulations.         Waste code       :         The waste code number according to the Ordinance on the European Waste Catalogue depends on the waste producer and can therefore vary for any given product. The waste or number is therefore to be gleaned separately from each waste producer.         SECTION 14: Transport information       in accordance with ADR / IMDG / IATA         14.1.       UN number or ID number         JN-No. (IATA)       : Not applicable         JN-No. (IATA)       : Not applicable         JN-No. (	Glutaral, glutaraldehyde, 1,5-pentanedia	l (111-30-8)
No additional information available          12.5.       Results of PBT and vPvB assessment         Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.         12.6.       Endocrine disrupting properties         No additional information available       12.7.         12.7.       Other adverse effects         No additional information available       12.7.         12.7.       Other adverse effects         No additional information available       12.7.         12.7.       Other adverse effects         No additional information available       12.7.         12.7.       Other adverse effects         No additional information available       12.7.         Sectrion 13: Disposal considerations         13.1.       Waste treatment methods       :         Naste treatment methods       :       Do not empty into drains. Dispose of this material and its container in a safe way.         Naste code       :       The waste code number according to the Ordinance on the European Waste Catalogue depends on the waste producer and can therefore vary for any given product. The waste orden cumber is therefore to be gleaned separately from each waste producer.         Sectron 14: Transport information         In Mox (ADR)       :       Not applicable         JN-No. (IMDG)       :		
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## Safety Data Sheet

according to Regulation (EU) 2020/878

#### 14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment : No	

## Dangerous for the environment

: No

Marine pollutant Other information

: No supplementary information available

14.6. Special precautions for user

## **Overland transport**

Not applicable

## Transport by sea

Not applicable

#### Air transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

#### Not applicable

#### **SECTION 15: Regulatory information**

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

#### **EU-Regulations** 15.1.1.

Contains substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: Glutaral (EC no: 203-856-5, CAS no: 111-30-8) Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK)	: WGK 1 - Slightly hazardous to water
WGK Remark	: Classification according to AwSV, Annex 1
Storage class (LGK)	: LGK 10 - 13
Employment restrictions	<ul> <li>Employment prohibitions for the protection of young people at work according to § 22 section 1(6) JArbSchG have to be observed.</li> </ul>

#### 15.2. **Chemical safety assessment**

No chemical safety assessment has been carried out.

SECTION 16: Other information	
Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Changes compared to the previous version	: •

#### Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
ΙΑΤΑ	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC/L	No Observed Adverse Effect Concentration/Level
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
14.07.2022	EN (English) D Desgent PA E 2446: 9/

## Safety Data Sheet

according to Regulation (EU) 2020/878

PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

#### Full text of H- and EUH-phrases:

Acute Tox. 2 (Inhalation)	Acute toxicity (inhalation), Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1A	Skin sensitisation, Category 1A
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H330	Fatal 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.
H411	Toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

#### SDS EU (REACH Annex II)

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.

# *i*mmus**mol**

# **NaOH BA E-2787**

Safety Data Sheet according to Regulation (EU) 2020/878

	Date of issue: 14.07.2023	Revision date: -	Version/Replaced version: 1.0/-
<b>SECTION 1: Identification of the</b>	substance/mixture and of th	e company/undertaking	
1.1. Product identifier			
Product form	: Mixture		
Product name	: NaOH BA E-2787		
UFI	: -		
1.2. Relevant identified uses of the	substance or mixture and uses adv	ised against	

#### 1.2.1. Relevant identified uses

Use of the substance/mixture

> : Laboratory reagent, Immunoassays Use by professionals.

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

#### Supplier/Manufacturer

LDN Labor Diagnostika Nord GmbH & Co. KG Am Eichenhain 1 48531 Nordhorn, Germany T +49 (0)5921 81970 - F +49 (0)5921 8197 201 support@ldn.de

#### **Emergency telephone number** 1.4.

Country	Organisation/Company	Address	Emergency telephone number
Germany	LDN Labor Diagnostika Nord GmbH & Co. KG	Am Eichenhain 1	+49 (0) 5921-81970
-		48531 Nordhorn, Germany	(Mo-Fr 8:00-16:00)

#### SECTION 2: Hazards identification

#### Classification of the substance or mixture 2.1.

Classification according to Regulation (EC) No. 1272/2008 [CLP] Corrosive to metals, Category 1 H290 Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 2 H319

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Causes skin irritation. Causes serious eye irritation.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)

Signal word (CLP) Haza

: Warning

GHS05

ng, eye protection.
water.
sly with water for several minutes. Remove nue rinsing.
al advice/attention.
cal advice and attention.
n a

### Safety Data Sheet

according to Regulation (EU) 2020/878

Reduced labelling (contents of the package ≤ 125 ml) according to Regulation (EC) No. 1272/2008 [CLP]

Hazard	pictograms	(CLP)
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	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: -
Precautionary statements (CLP)	: -

#### 2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Com	position/information	on ingredients
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#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium hydroxide; caustic soda	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	< 2	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318
Name	Product identifier		concentration limits according to on (EC) No. 1272/2008 [CLP]
sodium hydroxide; caustic soda	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	(0.5 ≤ C < (2 ≤ C < 5	2) Skin Irrit. 2, H315 2) Eye Irrit. 2, H319 ) Skin Corr. 1B, H314 00) Skin Corr. 1A, H314

#### Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Drink plenty of water as a precaution.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
4.3. Indication of any immediate medica	al attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	<ul> <li>Adapt extinguishing agents to the environment. Carbon dioxide. Foam. Dry extinguishing powder. Water spray.</li> </ul>

	powder. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the su	ibstance or mixture
Hazardous decomposition products in case of fire	: Toxic gases may be formed. Carbon dioxide. Carbon monoxide.
5.3. Advice for firefighters	
Firefighting instructions	: Prevent firefighting water from entering the environment. Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Use a self-contained breathing apparatus and also a protective suit.

## Safety Data Sheet

according to Regulation (EU) 2020/878

SECT	ION 6: Accidental release me	easures
6.1.	Personal precautions, protective	equipment and emergency procedures
General	l measures	: Stop leak if safe to do so. Ensure adequate air ventilation. Avoid contact with skin and eyes. D not breathe vapours/spray.
6.1.1.	For non-emergency personnel	
Emerge	ency procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protecti	ve equipment	: Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection.
6.2.	Environmental precautions	
Prevent	entry to sewers and public waters.	
6.3.	Methods and material for contain	ment and cleaning up
Method	s for cleaning up	: Absorb spillage to prevent material damage. Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
		Dispose of in accordance with relevant local regulations.
6.4.	Reference to other sections	Dispose of in accordance with relevant local regulations.
		ee section 8. Concerning disposal elimination after cleaning, see section 13.
Exposu		ee section 8. Concerning disposal elimination after cleaning, see section 13.
Exposu	re controls and personal protection, se	ee section 8. Concerning disposal elimination after cleaning, see section 13.
Exposu SECT 7.1.	re controls and personal protection, se ION 7: Handling and storage	ee section 8. Concerning disposal elimination after cleaning, see section 13.
Exposu SECT 7.1. Precaut	re controls and personal protection, se ION 7: Handling and storage Precautions for safe handling	ee section 8. Concerning disposal elimination after cleaning, see section 13. : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact
Exposu SECT 7.1. Precaut	re controls and personal protection, se ION 7: Handling and storage Precautions for safe handling tions for safe handling	<ul> <li>Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosol.</li> <li>Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash i before reuse.</li> </ul>
Exposu SECT 7.1. Precaut Hygiene 7.2.	re controls and personal protection, se ION 7: Handling and storage Precautions for safe handling tions for safe handling e measures	<ul> <li>Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosol.</li> <li>Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash i before reuse.</li> </ul>
Exposu SECT 7.1. Precaut Hygiene 7.2. Storage	re controls and personal protection, se ION 7: Handling and storage Precautions for safe handling tions for safe handling e measures Conditions for safe storage, inclu	<ul> <li>ee section 8. Concerning disposal elimination after cleaning, see section 13.</li> <li>Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosol.</li> <li>Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash i before reuse.</li> <li>Uding any incompatibilities</li> <li>Store in corrosive resistant container with a resistant inner liner. Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from direct sunlight</li> </ul>
Exposu SECT 7.1. Precaut Hygiene 7.2. Storage Prohibit	re controls and personal protection, se ION 7: Handling and storage Precautions for safe handling tions for safe handling e measures Conditions for safe storage, inclue conditions	<ul> <li>Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosol.</li> <li>Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash i before reuse.</li> <li>Store in corrosive resistant container with a resistant inner liner. Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from direct sunlight Keep out of frost.</li> </ul>
Exposu SECT 7.1. Precaut Hygiene 7.2. Storage Prohibit	re controls and personal protection, se ION 7: Handling and storage Precautions for safe handling ions for safe handling e measures Conditions for safe storage, inclu- e conditions ions on mixed storage	<ul> <li>ee section 8. Concerning disposal elimination after cleaning, see section 13.</li> <li>Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapour/aerosol.</li> <li>Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash i before reuse.</li> <li>Iding any incompatibilities</li> <li>Store in corrosive resistant container with a resistant inner liner. Store in original container. Keep container tightly closed. Store in a cool, well-ventilated place. Protect from direct sunlight Keep out of frost.</li> <li>Keep away from food, drink and animal feedingstuffs.</li> </ul>

sodium hydroxide:	caustic soda (1310-73-2)		
Austria	Local name		Natriumhydroxid
Austria	MAK (OEL TWA) (mg	g/m³)	2 mg/m <sup>3</sup> (E)
Austria	MAK (OEL STEL) (pr		4 mg/m <sup>3</sup> (E)
Belgium	Local name	•	Sodium (hydroxyde de) # Natriumhydroxide
Belgium	OEL TWA (mg/m <sup>3</sup> )		2 mg/m <sup>3</sup>
Belgium	Remark		M
Switzerland	Local name		Soude caustique / Natriumhydroxid
Switzerland	MAK (mg/m <sup>3</sup> )		2 mg/m³ (i) / (e)
Switzerland	KZGW (mg/m <sup>3</sup> )		2 mg/m³ (i) / (e)
Switzerland	Notation (CH)		SSc
sodium hydroxide; d	caustic soda (1310-73-2)		
DNEL/DMEL (Worke	rs)		
Long-term - local effe	cts, inhalation	1 mg/m <sup>3</sup>	
DNEL/DMEL (Genera	al population)		
Long-term - local effects, inhalation		1 mg/m <sup>3</sup>	
8.2. Exposure c	ontrols	1	

## 8.2. Exposure controls

#### Appropriate engineering controls:

Provide local exhaust or general room ventilation to minimize vapour concentrations.

#### Safety Data Sheet

according to Regulation (EU) 2020/878

#### Hand protection:

Wear suitable gloves (EN 374). Nitrile rubber, 0.35 mm. Butyl rubber, 0.5 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection:

Wear safety glasses (EN 166).

#### Skin and body protection:

Wear suitable protective clothing.

#### **Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Breathing apparatus with filter type P2.

#### Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and o	chemical properties
Physical state	: Liquid
Colour	: Colourless
Odour	: Odourless
Melting point/freezing point	: No data available
Boiling point or initial boiling point and boiling range	: No data available
Flammability	: No data available
Lower and upper explosion limit	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
рН	: 13.0 – 13.5
Kinematic viscosity	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (log value)	: Not applicable
Vapour pressure	: No data available
Density and/or relative density	: No data available
Relative vapour density	: No data available
Particle size	: Not applicable

#### 9.2. Other information

9.2.1.	Information with	th regard to	physical h	nazard classes
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Explosive properties	: No explosive properties
Oxidising properties	: No oxidising properties

#### 9.2.2. Other safety characteristics

No additional information available

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

#### 10.3. Possibility of hazardous reactions

May be corrosive to metals.

#### 10.4. Conditions to avoid

High temperatures.

#### 10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids. Alkali metals.

#### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. In case of fire: Toxic gases may be formed. Carbon dioxide. Carbon monoxide.

Safety Data Sheet

according to Regulation (EU) 2020/878

according to Regulation (EU) 2020/878	
<b>SECTION 11: Toxicological informat</b>	ion
11.1. Information on hazard classes as de	efined in Regulation (EC) No 1272/2008
Acute toxicity	: Not classified
	Based on available data, the classification criteria are not met
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
	Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	Based on available data, the classification criteria are not met : Not classified
Reproductive toxicity	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
Specific target organ toxicity (repeated	: Not classified
exposure)	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met
11.2. Information on other hazards	
Potential adverse human health effects and	: Based on available data, the classification criteria are not met
symptoms	
<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
sodium hydroxide; caustic soda (1310-73-2)	
EC50 crustacea	40.4 mg/l 48 h, Ceriodaphnia sp.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	int
-	kic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	15
13.1. Waste treatment methods	
Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods Waste code	<ul> <li>Do not empty into drains. Dispose of this material and its container in a safe way.</li> <li>The waste code number according to the Ordinance on the European Waste Catalogue</li> </ul>
	depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste producer.
SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA	
14.1. UN number or ID number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
	Not applicable

UN-No. (IATA)

### Safety Data Sheet

according to Regulation (EU) 2020/878

14.2.UN proper shipping nameProper Shipping Name (ADR)Proper Shipping Name (IMDG)Proper Shipping Name (IATA)	<ul><li>Not applicable</li><li>Not applicable</li><li>Not applicable</li></ul>
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	

Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

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

Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

Water hazard class (WGK)	: WGK 1 - Slightly hazardous to water
WGK Remark	: Classification according to AwSV, Annex 1
Storage class (LGK)	: LGK 12 - Non-inflammable liquids
Employment restrictions	: Employment prohibitions for the protection of young people at work according to § 22 section 1(6) JArbSchG have to be observed.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information	
Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Changes compared to the previous version	:-
Abbreviations and acronyms:	

 ADR
 European Agreement concerning the International Carriage of Dangerous Goods by Road

 CLP
 Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

## Safety Data Sheet

according to Regulation (EU) 2020/878

DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC/L	No Observed Adverse Effect Concentration/Level
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

#### Full text of H- and EUH-phrases:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

SDS EU (REACH Annex II)

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.