according to Regulation (EC) No 1907/2006 (REACH) as amended

CD34 QuantiFlowEx Kit

Date of creation Date of revision 21st July 2023

Version

1

PRODUCT IDENTIFICATION	
Cat. No.	Product name
ED7080	CD34 QuantiFlowEx Kit

COMPONENTS OF THE KIT				
Code	Name	Classification		
ED7080-1	Staining Reagent	Not classified as hazardous.		
ED7080-2	7-AAD	Not classified as hazardous.		
ED7080-3	Lysing Solution	Not classified as hazardous.		

			_	
	ассо		C) No 1907/2006 (REACH) as a	amended
		Stair	ning Reagent	
		st July 2023	Revision no.	
Revisi	on date		Version	1
БЕСТІ	ON 1: Identification of th	e substance/mixtu	e and of the company/unde	rtaking
.1.	Product identifier		Staining Reagent	5
	Substance / mixture		mixture	
	Number		ED7080-1	
.2.	Relevant identified uses	s of the substance o	r mixture and uses advised a	against
	Mixture's intended use			
	diagnostic reagent			
	The use descriptors			
	SU 24 Scientific research a		ch and development	
	PC 21	Laboratory chen	nicals	
	PROC 15	Use as laborator	ry reagent	
	Mixture uses advised ag	jainst		
	The product should not be	used in ways other th	an those referred in Section 1.	
.3.	Details of the supplier of	of the safety data sh	eet	
	Manufacturer			
	Name or trade name	9	EXBIO Praha, a.s.	
	Address		Nad Safinou II / 341	, Vestec, 25250
			Czech Republic	
	Phone		+420261090666	
	E-mail		orders@exbio.cz	
	Web address		www.exbio.cz	
	Competent person resp	onsible for the safet	-	
	Name		EXBIO Praha, a.s.	
-	E-mail		orders@exbio.cz	
.4.	Emergency telephone n			
	National Health Service (N National poisoning informa			

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008 The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.

Full text of all classifications and hazard statements is given in the section 16.

2.2. Label elements

none

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 011-004-00-7 CAS: 26628-22-8 EC: 247-852-1	sodium azide	<0,099	Acute Tox. 2, H300+H330 Acute Tox. 1, H310 STOT RE 2, H373 (ingestion) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) EUH032	1

according to Regulation (EC) No 1907/2006 (REACH) as amended

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Notes

1 A substance for which exposure limits are set.

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Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

If on skin

Remove contaminated clothes.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

Possible irritation of airways, cough, headache.

If on skin Not expected.

If in eyes Possible irritation.

If swallowed

II Swallowed

4.3.

Nausea, stomach pain, vomiting, diarrhoea.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. Unsuitable extinguishing media Water - full jet. Special bazarde arising from the substance or mixture

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Follow the instructions in the Sections 7 and 8.

- 6.2. Environmental precautions
- Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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FUAD (2005 Werkels of every limits (Fourth Edition 2020)

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

21st July 2023

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

7.3. Specific end use(s)

diagnostic reagent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

United Kingdans

The mixture contains substances for which occupational exposure limits are set.

United Kingdom	EH40/2005 Wol	rkplace exposu	re limits (Fourth Edition 2020)
Substance name (component)	Туре	Value	Note
sodium azide (as NaN3) (CAS: 26628-22-8)	WEL 8h	0,1 mg/m³	Can be absorbed through the skin. The assigned substances are those for which there are
	WEL 15min	0,3 mg/m ³	concerns that dermal absorption will lead to systemic toxicity.

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
physical state	liquid at 20 °C
color	colourless
Odour	data not available
pН	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	100 °C
Flash point	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
explosive limits	data not available

according to Regulation (EC) No 1907/2006 (REACH) as amended

Staining Reagent Creation date Revision no. 21st July 2023 Revision date Version 1 Vapour pressure data not available Solubility(ies) data not available solubility in water Partition coefficient: n-octanol/water data not available Auto-ignition temperature data not available data not available Decomposition temperature Viscosity Kinematic viscosity data not available Density 1 g/cm³ at 20 °C 9.2. **Other information** not available

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Sodium azide can react with metals contained in sewage to form lead or copper azide, which can explode on impact. 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

codium azido

Soululli azlue					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	27 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD50	20 mg/kg		Rabbit	
Inhalation	LC50	0.054 mg/l	4 hours	Rat (Rattus norvegicus)	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

according to Regulation (EC) No 1907/2006 (REACH) as amended

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Germ cell mutagenicity

Based on available data the classification criteria are not met.

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Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

not available

Acute toxicity

sodium azide				
Parameter	Value	Exposure time	Species	Environment
EC₅0	5.6 mg/l	48 hours	Aquatic invertebrates	

12.2. Persistence and degradability

not available

12.3. Bioaccumulative potential Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SAFETY DATA SHEET					
	a	cording to Regulation (E	C) No 1907/2006 (REACH) as a	amended	
		Stain	ning Reagent		
Creatio	on date	21st July 2023	Revision no.		
Revisio	on date		Version	1	
SECTI	ON 14: Transport infor	mation			
	UN number				
	not subject to transport	regulations			
14.2.	UN proper shipping n	ame			
	not relevant				
14.3.	Transport hazard clas	ss(es)			
	not relevant				
14.4.	Packing group				
	not relevant				
14.5.	Environmental hazar	ls			
	not relevant				
14.6.	Special precautions for user				
	Reference in the Section	ns 4 to 8.			
14.7.	Transport in bulk acc	ording to Annex II of N	Marpol and the IBC Code		
	not relevant				

SECTION 15: Regulatory information

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

Clean Air Act 1993 as amended. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Public health act 1961. Environmental Protection Act 1990 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phras	ses used in the safety data sheet
H310	Fatal in contact with skin.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H300+H330	Fatal if swallowed or if inhaled.
A list of additional standard	d phrases used in the safety data sheet
EUH032	Contact with acids liberates very toxic gas.
Other important informatio	n about human health protection
	less specifically approved by the manufacturer/importer - used for purposes other than is responsible for adherence to all related health protection regulations.
Key to abbreviations and a	cronyms used in the safety data sheet
ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union

according to Regulation (EC) No 1907/2006 (REACH) as amended

Staining Reagent Creation date Revision no. 21st July 2023 Revision date Version 1 FuPCS European Product Categorisation System ΙΑΤΑ International Air Transport Association IBC International Code For The Construction And Equipment of Ships Carrying **Dangerous** Chemicals ICAO International Civil Aviation Organization IMDG International Maritime Dangerous Goods INCI International Nomenclature of Cosmetic Ingredients ISO International Organization for Standardization IUPAC International Union of Pure and Applied Chemistry LC 50 Lethal concentration of a substance in which it can be expected death of 50% of the population Lethal dose of a substance in which it can be expected death of 50% of the LD 50 population log Kow Octanol-water partition coefficient MARPOL International Convention for the Prevention of Pollution from Ships OEL Occupational Exposure Limits PBT Persistent, Bioaccumulative and Toxic Parts per million ppm REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Agreement on the transport of dangerous goods by rail RID Four-figure identification number of the substance or article taken from the UN UN Model Regulations UVCB Substances of unknown or variable composition, complex reaction products or biological materials VOC Volatile organic compounds vPvB Very Persistent and very Bioaccumulative Acute Tox. Acute toxicity Aquatic Acute Hazardous to the aquatic environment Aquatic Chronic Hazardous to the aquatic environment (chronic) STOT RE Specific target organ toxicity - repeated exposure **Training guidelines** Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The first edition of the GB version of the safety data sheet.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

	acco	raing to Regulation (E	C) No 1907/2006 (REACH) as a	amended
			7-AAD	
Creati	ion date 21	st July 2023	Revision no.	
Revisi	ion date		Version	1
SECT	ION 1: Identification of th	e substance/mixtu	re and of the company/unde	rtaking
1.1.	Product identifier		7-AAD	
	Substance / mixture		mixture	
	Number		ED7080-2	
1.2.	Relevant identified uses	s of the substance o	r mixture and uses advised a	against
	Mixture's intended use			
	diagnostic reagent			
	The use descriptors			
	SU 24	Scientific resear	ch and development	
	PC 21	Laboratory cher	nicals	
	PROC 15	Use as laborato	ry reagent	
	Mixture uses advised ag	•		
		-	nan those referred in Section 1.	
L. 3 .	Details of the supplier of	of the safety data sh	leet	
	Manufacturer			
	Name or trade name	2	EXBIO Praha, a.s.	
	Address		Nad Safinou II / 341	l, Vestec, 25250
			Czech Republic	
	Phone		+420261090666	
	E-mail		orders@exbio.cz	
	Web address		www.exbio.cz	
	Competent person resp	onsible for the safe	-	
	Name		EXBIO Praha, a.s.	
	E-mail		orders@exbio.cz	
1.4.	Emergency telephone n			
	National Health Service (N National poisoning informa			

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008 The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.

Full text of all classifications and hazard statements is given in the section 16.

2.2. Label elements

none

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 011-004-00-7 CAS: 26628-22-8 EC: 247-852-1	sodium azide	<0,099	Acute Tox. 2, H300+H330 Acute Tox. 1, H310 STOT RE 2, H373 (ingestion) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) EUH032	1

according to Regulation (EC) No 1907/2006 (REACH) as amended

	7-/	AAD			
Creation date Revision date	21st July 2023		vision no. rsion	1	
Identification numbers	Substance name		Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note

Notes

CAS: 7240-37-1

EC: 635-285-6

1 A substance for which exposure limits are set.

7-Aminoactinomycin D

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

<0,05

Acute Tox. 2, H300

If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

If on skin

Remove contaminated clothes.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

Most important symptoms and effects, both acute and delayed

If inhaled

4.2.

Possible irritation of airways, cough, headache.

If on skin Not expected. If in eyes Possible irritation. If swallowed Nausea, stomach pain, vomiting, diarrhoea.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

according to Regulation (EC) No 1907/2006 (REACH) as amended

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6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

7.3. Specific end use(s)

diagnostic reagent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

United Kingdom	EH40/2005 Wo	rkplace exposu	re limits (Fourth Edition 2020)
Substance name (component)	Туре	Value	Note
	WEL 8h	0,1 mg/m³	Can be absorbed through the skin. The assigned substances are those for which there are
sodium azide (as NaN3) (CAS: 26628-22-8)	WEL 15min	0,3 mg/m ³	concerns that dermal absorption will lead to systemic toxicity.

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance physical state

color

liquid at 20 °C colourless

according to Regulation (EC) No 1907/2006 (REACH) as amended

		7-AAD		
Creatio	on date 21st July 2023	Revision no.		
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	Odour	without fragrance		
	рН	data not available		
	Melting point/freezing point	data not available		
	Initial boiling point and boiling range	100 °C		
	Flash point	data not available		
	Flammability (solid, gas)	data not available		
	Upper/lower flammability or explosive limits			
	explosive limits	data not available		
	Vapour pressure	data not available		
	Solubility(ies)			
	solubility in water	data not available		
	Partition coefficient: n-octanol/water	data not available		
	Auto-ignition temperature	data not available		
	Decomposition temperature	data not available		
	Viscosity			
	Kinematic viscosity	data not available		
	Density	1 g/cm³		
9.2.	Other information			
	not available			

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Sodium azide can react with metals contained in sewage to form lead or copper azide, which can explode on impact. 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

sodium azide					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	27 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD50	20 mg/kg		Rabbit	
Inhalation	LC50	0.054 mg/l	4 hours	Rat (Rattus norvegicus)	

according to Regulation (EC) No 1907/2006 (REACH) as amended

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Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

not available Acute toxicity

sodium azide				
Parameter	Value	Exposure time	Species	Environment
EC50	5.6 mg/l	48 hours	Aquatic invertebrates	

12.2. Persistence and degradability not available

12.3. Bioaccumulative potential Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Not available.

SECTION 13: Disposal considerations

according to Regulation (EC) No 1907/2006 (REACH) as amended

7-AAD

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Revision date		Version	1	

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number

not subject to transport regulations

- **14.2.** UN proper shipping name not relevant
- 14.3. Transport hazard class(es) not relevant
- 14.4. Packing group not relevant
- 14.5. Environmental hazards not relevant
- **14.6.** Special precautions for user Reference in the Sections 4 to 8.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code not relevant

SECTION 15: Regulatory information

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

Clean Air Act 1993 as amended. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Public health act 1961. Environmental Protection Act 1990 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard ris	sk phrases used in the safety data sheet
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H300+H330	Fatal if swallowed or if inhaled.
A list of additional s	standard phrases used in the safety data sheet
EUH032	Contact with acids liberates very toxic gas.
Other important info	ormation about human health protection

	according to Regulatio	n (EC) No 1907/2006 (REACH) a	as amended
		7-AAD	
ation date ision date	21st July 2023	Revision no. Version	1
The product mu	st not he - unless specificall	v approved by the manufacture	r/importer - used for purposes other that
as per the Secti	on 1. The user is responsible	e for adherence to all related hea	alth protection regulations.
Key to abbrev	iations and acronyms use	d in the safety data sheet	
ADR		greement concerning the interna	tional carriage of dangerous goods by
	road		
BCF	Bioconcentr		
CAS		ostracts Service	
CLP		EC) No 1272/2008 on classificat nd mixtures	tion, labelling and packaging of
EC	Identificatio	n code for each substance listed	in EINECS
EC50	Concentratio	on of a substance when it is affe	cted 50% of the population
EINECS	European Ir	ventory of Existing Commercial	Chemical Substances
EmS	Emergency	plan	
EU	European U	nion	
EuPCS	European Pi	oduct Categorisation System	
IATA	Internationa	I Air Transport Association	
IBC	Internationa	al Code For The Construction And	d Equipment of Ships Carrying
	Dangerous (Chemicals	
ICAO	Internationa	al Civil Aviation Organization	
IMDG	Internationa	l Maritime Dangerous Goods	
INCI	Internationa	I Nomenclature of Cosmetic Ing	redients
ISO	Internationa	I Organization for Standardization	on
IUPAC	Internationa	I Union of Pure and Applied Che	mistry
LC50	Lethal conce population	entration of a substance in which	n it can be expected death of 50% of the
LD50	Lethal dose population	of a substance in which it can be	e expected death of 50% of the
log Kow	Octanol-wat	er partition coefficient	
MARPOL	Internationa	I Convention for the Prevention	of Pollution from Ships
OEL	Occupationa	l Exposure Limits	
PBT	Persistent, I	Bioaccumulative and Toxic	
ppm	Parts per m		
REACH	Registration	, Evaluation, Authorisation and I	Restriction of Chemicals
RID	5	on the transport of dangerous go	
UN		identification number of the sub	stance or article taken from the UN
UVCB		of unknown or variable composi	tion, complex reaction products or
VOC	Volatile orga	anic compounds	
vPvB	Very Persist	ent and very Bioaccumulative	
Acute Tox.	Acute toxici	,	
Aquatic Acute		o the aquatic environment	
Aquatic Chronic		o the aquatic environment (chro	•
STOT RE		jet organ toxicity - repeated exp	oosure
ways of handlin	onnel about the recommend g the product.	ed ways of use, mandatory prot	tective equipment, first aid and prohibit
	l restrictions of use		
not available			
		compile the Safety Data She	
REGULATION (E			OF THE COUNCIL (REACH) as amended OF THE COUNCIL as amended. Data from the council as amended.

The first edition of the GB version of the safety data sheet.

More information

according to Regulation (EC) No 1907/2006 (REACH) as amended

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Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

1.1. P S N 1.2. R M d	date 21st date 21st 1: Identification of the Product identifier Substance / mixture lumber	Lys July 2023 substance/mixtu	EC) No 1907/2006 (REACH) as amended ing Solution Revision no. Version 1 re and of the company/undertaking Lysing Solution mixture ED7080-3 re mixture and uses advised against	
Revision SECTION 1.1. P S N 1.2. R M d	date I 1: Identification of the Product identifier Substance / mixture lumber Relevant identified uses of Mixture's intended use	July 2023	Revision no. Version 1 re and of the company/undertaking Lysing Solution mixture ED7080-3	
Revision SECTION 1.1. P S N 1.2. R M d	date I 1: Identification of the Product identifier Substance / mixture lumber Relevant identified uses of Mixture's intended use	substance/mixtu	Version 1 re and of the company/undertaking Lysing Solution mixture ED7080-3	
SECTION 1.1. P S N 1.2. R M d	N 1: Identification of the Product identifier Substance / mixture Number Relevant identified uses of Nixture's intended use	-	re and of the company/undertaking Lysing Solution mixture ED7080-3	
1.1. P S N 1.2. R M d	Product identifier Substance / mixture lumber Relevant identified uses o fixture's intended use	-	Lysing Solution mixture ED7080-3	
S N 1.2. R M d	Substance / mixture lumber Relevant identified uses o fixture's intended use	f the substance c	mixture ED7080-3	
N 1.2. R M d	lumber Relevant identified uses o Nixture's intended use	f the substance o	ED7080-3	
L.2. R M d	Relevant identified uses o fixture's intended use	f the substance o	2270000	
M d	lixture's intended use	f the substance o	r mixture and uses advised against	
d			a mixture and uses advised dyamst	
	iagnostic reagent			
т				
•	he use descriptors			
-	5U 24	Scientific resea	rch and development	
-	C 21	Laboratory che	nicals	
-	ROC 15	Use as laborato	ry reagent	
	lixture uses advised agai			
	-		nan those referred in Section 1.	
	Details of the supplier of	the safety data sh	leet	
Μ	lanufacturer			
	Name or trade name		EXBIO Praha, a.s.	
	Address		Nad Safinou II / 341, Vestec, 2	25250
			Czech Republic	
	Phone		+420261090666	
	E-mail		orders@exbio.cz	
	Web address		www.exbio.cz	
C	Competent person respon	sible for the safe	-	
	Name		EXBIO Praha, a.s.	
L.4. E	E-mail E-mail	nhor	orders@exbio.cz	
N	lational Health Service (NHS lational poisoning information	5) 111	NHC 24, 111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008 The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.

Full text of all classifications and hazard statements is given in the section 16.

2.2. Label elements

none

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 017-014-00-8 CAS: 12125-02-9 EC: 235-186-4	ammonium chloride		Acute Tox. 4, H302 Eye Irrit. 2, H319	1, 2

Notes

1 A substance for which exposure limits are set.

according to Regulation (EC) No 1907/2006 (REACH) as amended

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2 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

If on skin

Remove contaminated clothes.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

Possible irritation of airways, cough, headache.

If on skin

Not expected.

If in eyes

Possible irritation.

If swallowed

Nausea, stomach pain, vomiting, diarrhoea.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, water spray jet, water mist. **Unsuitable extinguishing media**

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters Self-Contained Breathing

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

according to Regulation (EC) No 1907/2006 (REACH) as amended

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

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Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

7.3. Specific end use(s)

diagnostic reagent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

United Kingdom

The mixture contains substances for which occupational exposure limits are set.

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Туре	Value
Ammonium chlorido, fumo (CAC), 1212E 02.0	WEL 8h	10 mg/m ³
Ammonium chloride, fume (CAS: 12125-02-9)	WEL 15min	20 mg/m ³

8.2. Exposure controls

-

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	-
physical state	liquid at 20 °C
color	colourless
Odour	characteristic
рН	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	100 °C
Flash point	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
explosive limits	data not available
Vapour pressure	data not available
Solubility(ies)	
solubility in water	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	
Kinematic viscosity	data not available

according to Regulation (EC) No 1907/2006 (REACH) as amended Lysing Solution Creation date Revision no. 21st July 2023 Revision date Version 1 Density 1 g/cm³ 9.2. **Other information** not available **SECTION 10: Stability and reactivity** 10.1. Reactivity not available 10.2. Chemical stability The product is stable under normal conditions. 10.3. Possibility of hazardous reactions Unknown. 10.4. Conditions to avoid The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

according to Regulation (EC) No 1907/2006 (REACH) as amended

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Aspiration hazard

Based on available data the classification criteria are not met.

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SECTION 12: Ecological information

12.1. Toxicity

not available

- 12.2. Persistence and degradability not available
- **12.3. Bioaccumulative potential** Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number

not subject to transport regulations

- 14.2. UN proper shipping name not relevant
- 14.3. Transport hazard class(es) not relevant
- 14.4. Packing group not relevant
- 14.5. Environmental hazards not relevant
- **14.6.** Special precautions for user Reference in the Sections 4 to 8.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code not relevant

	SAFETY	OATA SHEET		
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SECTION 15: Regulatory information

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

Clean Air Act 1993 as amended. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Public health act 1961. Environmental Protection Act 1990 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

ammonium chloride

Restriction	Conditions of restriction
65	1. Shall not be placed on the market, or used, in cellulose insulation mixtures or cellulose insulation articles after 14 July 2018 unless the emission of ammonia from those mixtures or articles results in a concentration of less than 3 ppm by volume (2,12 mg/m3) under the test conditions specified in paragraph 4.
	A supplier of a cellulose insulation mixture containing inorganic ammonium salts shall inform the recipient or consumer of the maximum permissible loading rate of the cellulose insulation mixture, expressed in thickness and density.
	A downstream user of a cellulose insulation mixture containing inorganic ammonium salts shall ensure that the maximum permissible loading rate communicated by the supplier is not exceeded.
	2. By way of derogation, paragraph 1 shall not apply to placing on the market of cellulose insulation mixtures intended to be used solely for the production of cellulose insulation articles, or to the use of those mixtures in the production of cellulose insulation articles.
	3. In the case of a Member State that, on 14 July 2016, has national provisional measures in place that have been authorised by the Commission pursuant to Article 129(2)(a), the provisions of paragraphs 1 and 2 shall apply from that date.
	 4. Compliance with the emission limit specified in the first subparagraph of paragraph 1 shall be demonstrated in accordance with Technical Specification CEN/TS 16516, adapted as follows: (a) the duration of the test shall be at least 14 days instead of 28 days; (b) the ammonia gas emission shall be measured at least once per day throughout the test; (c) the emission limit shall not be reached or exceeded in any measurement taken during the test; (d) the relative humidity shall be 90 % instead of 50 %; (e) an appropriate method to measure the ammonia gas emission shall be used; (f) the loading rate, expressed in thickness and density, shall be recorded during the sampling of th
	cellulose insulation mixtures or articles to be tested.

15.2. Chemical safety assessment not available

SECTION 16: Other information

A list of standard risk	phrases used in the safety data sheet
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
Other important infor	mation about human health protection
	e - unless specifically approved by the manufacturer/importer - used for purposes other than the user is responsible for adherence to all related health protection regulations.
Key to abbreviations	and acronyms used in the safety data sheet
ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor

according to Regulation (EC) No 1907/2006 (REACH) as amended

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CAS	Chemical Abstracts Service	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging o substance and mixtures	f
EC	Identification code for each substance listed in EINECS	
EINECS	European Inventory of Existing Commercial Chemical Substances	
EmS	Emergency plan	
EU	European Union	
EuPCS	European Product Categorisation System	
IATA	International Air Transport Association	
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods	
INCI	International Nomenclature of Cosmetic Ingredients	
ISO	International Organization for Standardization	
IUPAC	International Union of Pure and Applied Chemistry	
log Kow	Octanol-water partition coefficient	
MARPOL	International Convention for the Prevention of Pollution from Ships	
OEL	Occupational Exposure Limits	
PBT	Persistent, Bioaccumulative and Toxic	
ppm	Parts per million	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Agreement on the transport of dangerous goods by rail	
UN	Four-figure identification number of the substance or article taken from th Model Regulations	e UN
UVCB	Substances of unknown or variable composition, complex reaction product biological materials	ts or
VOC	Volatile organic compounds	
vPvB	Very Persistent and very Bioaccumulative	
Acute Tox.	Acute toxicity	
Eye Irrit.	Eye irritation	
Training guidelines		

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The first edition of the GB version of the safety data sheet.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.