

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

## Date of issue: 23/04/2024 Version: 3.1 SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1.	Product identifier			
		: Mixture		
Product Name		: AMCA-conjugated AffiniPure™ Goat Anti-Human IgG (H+L) (minimal cross-reaction		
		to Bovine, Horse, and Mouse Serum Proteins)		
	uct Code	: 109-155-088		
1.2.		stance or mixture and uses advised against		
1.2.1.	Relevant identified uses			
Use c	f the substance/mixture	: For in vitro research use only. Not for diagnostic or therapeutic use. This is not a medical device. Contact supplier for specific applications.		
1.2.2.	Uses advised against			
No ado	litional information available			
1.3.	Details of the supplier of the sa	fety data sheet		
Manu	facturer	European Contact		
Jacks	on ImmunoResearch Laboratories, Ind	c. Jackson ImmunoResearch Europe LTD		
872 \	Vest Baltimore Pike	Cambridge House		
West	Grove, PA 19390	St Thomas' Place		
T: 800	)-367-5296, 610-869-4024	Ely, Cambridgeshire CB7 4EX, UK		
F: 610	)-869-0171	T: +44 (0) 1638 782616		
tech@	∮jacksonimmuno.com	F: +44 (0) 1353 664675		
www	jacksonimmuno.com	info@jacksonimmuno.com		
		help@jacksonimmuno.com		
Emai	address for the person responsible f	or this SDS:		
tech@	စ္ jacksonimmuno.com			
1.4.	Emergency telephone number			
Emer	Emergency number : +1-610-869-4024 (USA)			
SEC	TION 2: Hazards identification	tion		
2.1.	Classification of the substance or	r mixture		
Classifi	cation According to Regulation (EC) No	o. 1272/2008 [CLP]		
Aqua	tic Chronic3	H412		
Full te	kt of hazard classes and H-statements	:: see section 16		
Advers	e physicochemical, human health and	environmental effects		
No ado	litional information available			
2.2.	Label elements			
Labelli	ng According to Regulation (EC) No. 12	272/2008 [CLP]		
		H412 - Harmful to aquatic life with long lasting effects.		
Precautionary statements (CLP)		P273 - Avoid release to the environment.		
		P501 - Dispose of contents/container to hazardous or special waste collection		
		point, in accordance with local, regional, national and/or international		
		regulation.		
_		EUH032 - Contact with acids liberates very toxic gas.		
2.3.	Other hazards			



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Other hazards not contributing to the : Exposure may aggravate pre-existing eye, skin, or respiratory conditions. classification

## SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable

## 3.2. Mixture

Name	Product identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Sodi um azi de	(CAS-No.) 26628-22-8 (EC-No.) 247-852-1 (EC Index-No.) 011-004-00-7	0.54	Acute Tox. 2 (Oral), H300 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Sodium phosphate dibasic	(CAS-No.) 7558-79-4 (EC-No.) 231-448-7	1.51	Not classified
AMCA-conjugated AffiniPure™ Goat Anti-Human IgG (H+L) (minimal cross-reaction to Bovine, Horse, and Mouse Serum Proteins)	(CAS-No.) Not assigned	1.60	Not classified
Sodium chloride	(CAS-No.) 7647-14-5 (EC-No.) 231-598-3	15.7	Not classified
Albumins, blood serum	(CAS-No.) 9048-46-8 (EC-No.) 232-936-2	16.13	Not classified

Full text of H-statements: see section 16

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Using proper respiratory protection, move the exposed person to fresh air at once. Immediately call a poison center, physician, or emergency medical service.
First-aid measures after skin contact	: Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.
First-aid measures after eye contact	: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.
4.2. Most important symptoms an	d effects, both acute and delayed
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: May be harmful or cause irritation.
Symptoms/effects after skin contact	: Prolonged exposure may cause skin irritation.
Symptoms/effects after eye contact	: May cause slight irritation to eyes.
Symptoms/effects after ingestion	: Ingestion may cause adverse effects. May be harmful if swallowed.
Chronic symptoms	: None expected under normal conditions of use.
4.2 Indication of any immediate	nodical attention and chocial treatment needed

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



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

SECTION 5: Firefighting mea	sures
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray, fog, carbon dioxide (CO <sub>2</sub> ), alcohol-resistant foam, or dry chemica
	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream. Use of heavy stream of water may spread fire.
5.2. Special hazards arising fro	om the substance or mixture
Fire hazard	: Not Assigned
Reactivity	: Sodium azide in water is a weak base. Reacts with copper, lead, silver, mercury and carbon disulfide to form shock-sensitive compounds. Reacts with acids, forming toxic and explosive hydrogen azide. Contact with acids liberates toxic gas.
Hazardous decomposition products in case of fire	: Hydrogen chloride. Sodium oxides. Nitrogen oxides.
5.3. Advice for firefighters	
Precautionary measures fire	: Exercise caution when fighting any chemical fire.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respirato
	protection.
SECTION 6: Accidental released	se measures
6.1. Personal precautions, protect	tive equipment and emergency procedures
General measures	: Avoid prolonged contact with eyes, skin and clothing.
6.1.1. For non-emergency personnel	
Protective equipment	: Use appropriate personal protective equipment (PPE).
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call fo the assistance of trained personnel as soon as conditions permit. Ventilate are
6.2. Environmental precautions	
	: Prevent entry to sewers and public waters. Avoid release to the environment.
6.3. Methods and material for cor	itainment and cleaning up
For containment	: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.
Methods for cleaning up	: Clean up spills immediately and dispose of waste safely. Contact competent authorities after a spill.
6.4. Reference to other sections	
See Section 8 for exposure controls and pe	ersonal protection and Section 13 for disposal considerations.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe handling	

7.1. Frecautions for sale nationing	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures.



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## 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Store at 2-8°C (35°F - 46.4°F). Keep/Store
	away from extremely high temperatures and incompatible materials.
Incompatible materials	: Strong acids, strong bases, strong oxidizers. Heavy metals. Halogenated
	hydrocarbons.

## 7.3. Specific end use(s)

For in vitro research use only. Not for diagnostic or therapeutic use. This is not a medical device. Contact supplier for specific applications.

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium chloride (7647-1	4-5)		
Latvia	OEL TWA (mg/m³)	5 mg/m <sup>3</sup>	
Lithuania	IPRV (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>	
Sodium azide (26628-22	-8)		
EU	IOELV TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>	
EU	IOELV STEL (mg/m <sup>3</sup> )	0,3 mg/m³	
EU	Notes	Possibility of significant uptake through the skin	
Austria	MAK (mg/m³)	0,1 mg/m <sup>3</sup>	
Austria	MAK Short time value (mg/m³)	0,3 mg/m³	
Austria	OEL chemical category (AT)	Skin notation	
Belgium	OEL chemical category (BE)	Skin, Skin notation	
Bulgaria	OEL TWA (mg/m³)	0,1 mg/m³	
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	0,3 mg/m³	
Croatia	GVI (granicna vrijednost izloženosti) (mg/m <sup>3</sup> )	0,1 mg/m³	
Croatia	KGVI (kratkotrajna granicna vrijednost izloženosti) (mg/m³)	0,3 mg/m³	
Croatia	OEL chemical category (HR)	Skin notation	
Cyprus	OEL TWA (mg/m³)	0,1 mg/m <sup>3</sup>	
Cyprus	OEL STEL (mg/m <sup>3</sup> )	0,3 mg/m <sup>3</sup>	
Cyprus	OEL chemical category (CY)	Skin-potential for cutaneous absorption	
France	VLE (mg/m <sup>3</sup> )	0,3 mg/m <sup>3</sup> (restrictive limit)	
France	VME (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (restrictive limit)	
France	OEL chemical category (FR)	Risk of cutaneous absorption	
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	0,2 mg/m <sup>3</sup>	
Gibraltar	Eight hours mg/m3	0,1 mg/m <sup>3</sup>	
Gibraltar	Short-term mg/m3	0,3 mg/m <sup>3</sup>	
Gibraltar	OEL chemical category (GI)	Skin notation	



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Greece OEL TWA (mg/m³)		0,3 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	0,1 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	0,3 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	0,1 ppm
USA ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	0,29 mg/m <sup>3</sup>
USA ACGIH	ACGIH Ceiling (ppm)	0,11 ppm
Italy	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Italy	OEL STEL (mg/m <sup>3</sup> )	0,3 mg/m <sup>3</sup>
Italy	OEL chemical category (IT)	skin - potential for cutaneous absorption
Latvia	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Latvia	OEL chemical category (LV)	skin - potential for cutaneous exposure
Spain	VLA-ED (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-EC (mg/m <sup>3</sup> )	0,3 mg/m <sup>3</sup>
Spain	OEL chemical category (ES)	skin - potential for cutaneous absorption
Switzerland	KZGW (mg/m³)	0,4 mg/m <sup>3</sup> (inhalable dust)
Switzerland	MAK (mg/m³)	0,2 mg/m <sup>3</sup> (inhalable dust)
Netherlands	Grenswaarde TGG 8H (mg/m³)	0,1 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	0,3 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m³)	0,1 mg/m <sup>3</sup>
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	0,3 mg/m <sup>3</sup>
United Kingdom	WEL chemical category	Potential for cutaneous absorption
Czech Republic	Expozicní limity (PEL) (mg/m³)	0,1 mg/m <sup>3</sup>
Czech Republic	OEL chemical category (CZ)	Potential for cutaneous absorption
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Estonia	OEL TWA (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Estonia	OEL STEL (mg/m <sup>3</sup> )	0,3 mg/m <sup>3</sup>
Estonia	OEL chemical category (ET)	Sensitizer, Skin notation
Finland	HTP-arvo (8h) (mg/m³)	0,1 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min)	0,3 mg/m <sup>3</sup>
Finland	OEL chemical category (FI)	Potential for cutaneous absorption
Hungary	AK-érték	0,1 mg/m <sup>3</sup>
Hungary	CK-érték	0,3 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (mg/m3)	0,3 mg/m <sup>3</sup>
Ireland     OEL chemical category (IE)		Potential for cutaneous absorption
Lithuania	IPRV (mg/m <sup>3</sup> )	0,1 mg/m <sup>3</sup>
Lithuania TPRV (mg/m³)		0,3 mg/m <sup>3</sup>
Lithuania OEL chemical category (LT)		Skin notation



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Luxembourg	OEL TWA (mg/m³)	0,1 mg/m³
Luxembourg	OEL STEL (mg/m <sup>3</sup> )	0,3 mg/m³
Luxembourg	OEL chemical category (LU)	Possibility of significant uptake through the skin
Malta	OEL TWA (mg/m³)	0,1 mg/m³
Malta	OEL STEL (mg/m <sup>3</sup> )	0,3 mg/m <sup>3</sup>
Malta	OEL chemical category (MT)	Possibility of significant uptake through the skin
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	0,1 mg/m³
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	0,3 mg/m <sup>3</sup> (value from the regulation)
Poland	NDS (mg/m <sup>3</sup> )	0,1 mg/m³
Poland	NDSCh (mg/m <sup>3</sup> )	0,3 mg/m³
Romania	OEL TWA (mg/m³)	0,1 mg/m³
Romania	OEL STEL (mg/m <sup>3</sup> )	0,3 mg/m³
Romania	OEL chemical category (RO)	Skin notation
Slovakia	NPHV (priemerná) (mg/m³)	0,1 mg/m³ (Sodium azide)
Slovakia	NPHV (Hranicná) (mg/m³)	0,3 mg/m³
Slovakia	OEL chemical category (SK)	Potential for cutaneous absorption
Slovenia	OEL TWA (mg/m³)	0,1 mg/m³
Slovenia	OEL STEL (mg/m <sup>3</sup> )	0,3 mg/m³
Slovenia OEL chemical category (SL)		Potential for cutaneous absorption
Sweden	nivågränsvärde (NVG) (mg/m³)	0,1 mg/m³
Sweden	kortidsvärde (KTV) (mg/m³)	0,3 mg/m³
Portugal	OEL TWA (mg/m³)	0,1 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL STEL (mg/m <sup>3</sup> )	0,3 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL - Ceilings (mg/m <sup>3</sup> )	0,29 mg/m <sup>3</sup>
Portugal	OEL - Ceilings (ppm)	0,11 ppm (vapor)
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen,skin - potential for cutaneous exposure indicative limit value

### 8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

Materials for protective clothing Hand protection Eye and Face Protection Skin and body protection

- : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure all national/local regulations are observed.
- : Gloves. Protective clothing. Protective goggles.



- : Chemically resistant materials and fabrics.
- : Wear protective gloves.
- : Chemical safety goggles.
- : Wear suitable protective clothing.



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

Other information
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SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties 0 1

9.1. Information on basic physical and chemical properties			
Physic	al state	:	Solid
Colour :		:	Light tan solid
Odour		:	Odourless, as water
Odour	threshold	:	No data available
рН		:	7.6, when rehydrated with indicated volume of $H_2O$
Evapor	ation rate	:	No data available
Meltin	g point	:	No data available
Freezin	ng point	:	No data available
Boiling	gpoint	:	No data available
Flash p	point	:	No data available
Auto-ig	nition temperature	:	No data available
Decom	position temerature	:	No data available
Flamm	ability (solid, gas)	:	No data available
Vapou	r pressure	:	No data available
Relativ	e vapour density at 20 °C	:	No data available
Relativ	e density	:	No data available
Solubil	lity	:	Water
Partitio	on coefficent: n-octanol/water	:	No data available
Viscos	ity	:	No data available
Explos	ive properties	:	No data available
Oxidis	ing properties	:	No data available
Explos	ivelimits	:	No data available
~ ~			

: When using, do not eat, drink or smoke.

#### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Sodium azide in water is a weak base. Reacts with copper, lead, silver, mercury, and carbon disulfide to form shock-sensitive compounds. Reacts with acids, forming toxic and explosive hydrogen azide. Contact with acids liberates toxic gas.

#### 10.2. **Chemical stability**

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

#### Possibility of hazardous reactions 10.3.

Hazardous polymerization will not occur.

#### 10.4. **Conditions to avoid**

Extremely high temperatures, and incompatible materials. Sparks, heat, open flame and other sources of ignition.

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers. Heavy metals. halogenated hydrocarbons.

#### Hazardous decomposition products 10.6.

Sodium oxides. Hydrogen chloride gas. Nitrogen oxides.



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#### SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity : Not classified Sodium chloride (7647-14-5) LD50 oral rat 3550 mg/kg (Species: Wistar) LD50 dermal rabbit > 10000 mg/kg (Species: New Zealand White) >42 g/m<sup>3</sup> (Exposure time: 1 h) LC50 inhalation rat (mg/l) Sodium azide (26628-22-8) LD50 oral rat 27 mg/kg LD50 oral 45 mg/kg LD50 dermal rabbit 20 mg/kg Sodium phosphate dibasic (7558-79-4) LD50 oral rat 17 g/kg LD50 dermal rat >500 mg/kg (50% solution) Skin corrosion/irritation : Not classified pH: 7,6 when rehydrated with indicated volume of H<sub>2</sub>O Serious eye damage/irritation : Not classified pH: 7,6 when rehydrated with indicated volume of H<sub>2</sub>O Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified : Not classified Aspiration hazard : Not classified

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Symptoms/Injuries After Inhalation	: May be harmful or cause irritation.
Symptoms/Injuries After Skin Contact	: Prolonged exposure may cause skin irritation.
Symptoms/Injuries After Eye Contact	: May cause slight irritation to eyes.
Symptoms/Injuries After Ingestion	: Ingestion may cause adverse effects. May be harmful if swallowed.
Chronic Symptoms	: None expected under normal conditions of use.

## SECTION 12: Ecological information

**12.1. Toxicity** Ecology - general

: Harmful to aquatic life with long lasting effects.

Sodium chloride (7647-14-5)	
LC50 fish 1	5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])



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EC50 Daphnia 2	340,7 (340,7 - 469,2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
NOEC chronic fish	252 mg/l (Species: Pimephales promelas)	
Sodium azide (26628-22-8)		
LC50 fish 1	0,8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
LC50 fish 2	0,7 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)	
ErC50 (algae)	0,348 mg/l	
2.2. Persistence and degradabil	ity	
AMCA-conjugated AffiniPure <sup>™</sup> Goat A	nti-Human IgG (H+L) (minimal cross-reaction to Bovine, Horse, and Mouse Serum Proteins)	
Persistence and degradability	Not established.	
2.3. Bioaccumulative potential		
AMCA-conjugated AffiniPure <sup>™</sup> Goat A	nti-Human IgG (H+L) (minimal cross-reaction to Bovine, Horse, and Mouse Serum Proteins)	
Bioaccumulative potential	Not established.	
Sodium chloride (7647-14-5)		
BCF fish 1	(no bioaccumulation)	
2.4. Mobility in soil		
lo additional information available		
2.5. Results of PBT and vPvB ass	sessment	
lo additional information available		
2.6. Other adverse effects		
Other information	: Avoid release to the environment.	
SECTION 13: Disposal cons	iderations	
3.1. Waste treatment methods		
Product/Packaging disposal recommendations	: Dispose of contents/container in accordance with local, regional, national, and international regulations.	
Ecology - waste materials	: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.	

## SECTION 14: Transport information

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

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN numbe	r			
Not regulated for tra	nsport			
14.2. UN proper	shipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				



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Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environment : No	environment : No	environment : No	environment : No	environment : No
	Marine pollutant : No			

## 14.6. Special precautions for user

No additional information available

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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 REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

## Sodium phosphate dibasic (7558-79-4)

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

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

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

### Sodium azide (26628-22-8)

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

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

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

### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Date of Preparation or Latest Revision	: 23/04/2024
Data sources	: Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information,
	and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.
Other information	: According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### Full Text of H- and EUH-statements:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
H300	Fatal if swallowed.



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H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
EUH032	Contact with acids liberates very toxic gas.	

### Indication of Changes No additional information available

## **Abbreviations and Acronyms**

ACGII - American Conference of Governmental Industrial HygienisisNDS - Najwysze Dopuszczalne Stezenie ChwiloweADN - European Agreement Concerning the International Carriage of Dangerous Goods by Inland WaterwaysNDSC - Najwysze Dopuszczalne Stezenie ChwiloweADR - European Agreement Concerning the International Carriage of Dangerous Goods by RoadNDSC - Najwysze Dopuszczalne Stezenie ChwiloweADR - European Agreement Concerning the International Carriage of Dangerous Goods by RoadNDSC - Najwysze Dopuszczalne Stezenie ChwiloweADR - European Agreement Concerning the International Carriage of Dangerous Goods by RoadNDSC - Najwysze Dopuszczalne Stezenie MuloweATE - Acute Toxicity EstimateNDSC - Najwysze Dopuszczalne Stezenie MuloweBEI - Biological Exposure Indices (BEI)NDE - No-Observed Affect LevelBD - Biochemical Oxygen DemandPEI - Perrissible Exposure LimitCLP - Classification, Labeling and Packaging Regulation (EC) No CD - Chemical Oxygen DemandPEI - Perrissible Exposure LimitCD - European Inventory of Existing Commercial Chemical SubstancesSDT - Select Accelerating Decomposition TemperatureEEC - European Inventory of Existing Commercial Chemical SubstancesSDT - Select Carling Decomposition TemperatureETS-No. (Spillage) - IMDG Emergency Schedule Fire Em-SNo. (Spillage) - IMDG Emergency Schedule Fire Em-SNo. (Spillage) - IMDG Emergency Schedule SpillageTAcuta - Technical Radiuting der LuftETC-European Inventory of Existing Commercial Chemical SubstancesTEL TKK - Technical Radiuting der LuftETC-European Inventory of Existing Commercial Chemical Stoch Eregen Cycle Regen Commonic The - Ternische Radiuting der Lu	Abbreviations and Acronyms	
Dangerous Goods by Inland WaterwaysNDSP - Najwysze Dopuszcialne Steernie PulapoweADR: European Agreement Concerning the International Carriage of Dangerous Goods by RoadNDGE - No-Observed Adverse Effect LevelADR: European Agreement Concerning the International Carriage of Dangerous Goods by RoadNDGE - No-Observed Adverse Effect LevelATE: Acute Toxicity EstimateNDE - No-Observed Effect ConcentrationATE: Acute Toxicity EstimateNDE - No-Observed Effect ConcentrationBD = Biochemical Oxygen DemandPBT -Persistent, Bioaccumulative and ToxicCAN No Chemical Abstracts Service NumberPE - Persissible Exposure LimitsCLP - Classification, Labeling and Packaging Regulation (EC) NoPH - Potential Hydrogen1272/2008REO – Regulations Concerning the International Carriage of DangerousCCS - Median Effective ConcentrationGoods by RailECC - European Iconomic CommunitySADT - Self Accelerating Decomposition TemperatureEINEC - European Inventory of Existing Commercial ChemicalSDS - Safety Data SheetSubstancesSTEL - Short Term Exposure LimitEns No. (Fire) - IMDG Emergency Schedule FireSTO - Specific Target Organ ToxicityErX - European UnionTE Charlog Aultions OncentrationsFCS - ECS Di Terms of Reduction Growth RateThe Chenical Guidance ConcentrationsGMS - Globally Harmonized System of Classification and Labeling ofThe Peritore Sheet Regel für Gefahrstoffe 510 - Lagerung vonIBC - European UnionTE Charlog Develio Ribinis DydisIATA - International Art Transport AssociationTHS ASS 920 - Technische Regel für Gefahrstoffe 510 - Lage	ACGIH – American Conference of Governmental Industrial Hygienists	NDS - Najwyzsze Dopuszczalne Stezenie
ADR.Furopean Agreement Concerning the International Carriage of Dangerous Goods by RoadNOAEL - No-Observed Adverse Effect LevelDangerous Goods by RoadNOEC - No-Observed Effect ConcentrationNDEATE - Acute Toxicity EstimateNDC - No-Observed Effect ConcentrationNDDBCF - Bioconcentration FactorNTP - National Toxicology ProgramBCF - Bioconcentration FactorNTP - National Toxicology ProgramBDD - Biochemical Oxygen DemandPET - Persistent, Bioaccumulative and ToxicCDP - Classification, Labeling and Packaging Regulation (EC) NoPH - Potential Hydrogen1272/2008REACH - Registration, Evaluation, Authorisation, and Restriction of ChemicalsEC - European CommunityRDD - Regulations Concerning the International Carriage of Dangerous Goods by RailEEC - European Inventory of Existing Commercial ChemicalSDS - Safety Data SheetSubstancesSTEL - Short Term Exposure LimitEmS-No. (Fire) - IMDG Emergency Schedule FireSTEL - Short Term Exposure LimitEmS-No. (Fire) - IMDG Emergency Schedule FireSTEL - Short Term Exposure LimitEnds- European UnionTL Takk - Technical Guidance ConcentrationsErC - European UnionTL Takk - Technical Oxygen DemandErC - European UnionTL Terms of Reduction Growth RateErC - So - ECS in Terms of Reduction Growth RateThO - Theoretical Oxygen DemandIMAC - International Buik Chemical CodeTRGS S10 - Technische Regel für Gefahrstoffe - N-NitrosamineIMAC - International Air Transport AssociationTRGS S52 - Technische Regel für Gefahrstoffe - N-NitrosamineIPW - ligalak	ADN – European Agreement Concerning the International Carriage of	NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe
Dangerous GoodNOEC - No-Observed Effect ConcentrationATE - Acute Toxicity EstimateNDE - Neursytimas Ribinis DydisATE - Acute Toxicity EstimateNDP - Neursytimas Ribinis DydisBTE - Biological Exposure Indices (BRI)OEL - Occupational Exposure LimitsBD0 - Biochemical Oxygen DemandPBT - Persistent, Bioaccumulative and ToxicCAS No Chemical Abstracts Service NumberPEL - Permissible Exposure LimitCLP - Classification , Labeling and Packaging Regulation (EC) NoPH - Potential Hydrogen1272/2008RRACH - Registration, Evaluation, Authorisation, and Restriction ofCOD - Chemical Oxygen DemandChemicalsEEC - European CommunityRID - Regulations Concerning the International Carriage of DangerousEGS - Median Effective ConcentrationGoods by RailEEC - European Iconomic CommunitySADT - Self Accelerating Decomposition TemperatureSubstancesSTEL - Short Term Exposure LimitEU-Storpean Inventory of Existing Commercial ChemicalStort - Specific Target Organ ToxicityEU-Storpean IunionTL - Thereshold Limit ValueIARC - International Agency for Research on CancerTRN - Thereshold Limit ValueIARC - International Agency for Research on CancerTRN - Thereshold Limit ValueIARC - International Maritime Dangerous GoodsTRGS 510 - Technische Regel für Gefahrstoffe - N-NitrosamineIRCS - Globally Harmonized System of Classification and Labeling ofTLM - Median Tolerance LimitIARC - International Agency for Research on CancerTRRS 510 - Technische Regel für Gefahrstoffe - N-NitrosamineIRRV - Ilgalaikio Poveikio	Dangerous Goods by Inland Waterways	NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe
ATTActue Toxicity EstimateNRD - Nevirsytinas Ribinis DydisBGF - Bioconcentration FactorNTD - National Toxicology ProgramBGT - Biological Exposure Indices (BEI)OEL - Occupational Exposure LimitBDD - Biochemical Oxygen DemandPBT - Persistent, Bioaccumulative and ToxicCAS No Chemical Abstracts Service NumberPEL - Permissible Exposure LimitCLP - Classification, Labeling and Packaging Regulation (EC) NoPH - Potential Hydrogen1272/2008REACH - Registration, Evaluation, Authorisation, and Restriction ofCDD - Chemical Oxygen DemandChemicalsEC - European CommunityRID - Regulations Concerning the International Carriage of DangerousECS:0 - Median Effective ConcentrationGoods by RailEEC - European Inventory of Existing Commercial ChemicalSDS - Safety Data SheetSubstancesSTEL - Short Term Exposure LimitEmS-No. (Fire) - IMDG Emergency Schedule FireSTOT - Specific Target Organ ToxicityEnd-Sho. (Fire) - IMDG Emergency Schedule FireSTOT - Specific Target Organ ToxicityEU-European UnionTL LTK - Technische Anleitung zur Reinhaltung der LuftEU - European UnionTLOErCS - Ecol In Terms of Reduction Growth RateTLOChemicalsTLOIARC - International Agency for Research on CancerTRBIARC - International Agency for Research on CancerTRGS 552 - Technische Regel für Gefahrstoffe - N-NitrosamineIPNV - ligalakio Poveikio Ribinis DydisTRGS 590 - Technische Regel für Gefahrstoffe - N-NitrosamineIPNV - ligalakio Poveikio Ribinis DydisTRGS 590 - Technische R	ADR - European Agreement Concerning the International Carriage of	NOAEL - No-Observed Adverse Effect Level
BCF - Bioconcentration FactorNTP - National Toxicology ProgramBEI - Biological Exposure LimitesOEL - Occupational Exposure LimitsBOD - Biochemical Oxygen DemandPBT - Persistent, Bioaccumulative and ToxicCAS No Chemical Abstracts Service NumberPEL - Permissible Exposure LimitCLP - Classification, Labeling and Packaging Regulation (EC) NoPH - Potential Hydrogen1272/2008REACH - Registration, Evaluation, Authorisation, and Restriction ofCOD - Chemical Oxygen DemandChemicalsEC - European CommunityRD - Self Accelerating Decomposition TemperatureEEC - European Iconomic CommunitySADT - Self Accelerating Decomposition TemperatureEINECS - European Inventory of Existing Commercial ChemicalSDS - Safety Data SheetSubstancesSTEL - Short Term Exposure LimitEmS-No. (Fire) - IMDG Emergency Schedule FireSTOT - Specific Target Organ ToxicityErCS - ECSO in Terms of Reduction Growth RateThOD - Theoretical Oxygen DemandErCS - ECSO in Terms of Reduction Growth RateTLM - Median Tolerance LimitChemicalsTLM - Median Tolerance LimitIARC - International Agency for Research on CancerTRG - Strumpalaikio Poveikio Ribinis DydisIARC - International Air Transport AssociationTRG SS S2 - Technische Regel für Gefahrstoffe S10 - Lagerung vonIBC Code - International Air Transport AssociationTRG SS S00 - Technische Regel für Gefahrstoffe S10 - Lagerung vonIBC Code - International Air Transport AssociationTRG S520 - Technische Regel für Gefahrstoffe S10 - Lagerung vonIBC Code - International Maritime Dangerous GoodsTRGS	Dangerous Goods by Road	NOEC - No-Observed Effect Concentration
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BOD – Biochemical Oxygen DemandPBT - Persistent, Bioaccumulative and ToxicCAS No Chemical Abstracts Service NumberPEL - Permissible Exposure LimitCLP – Classification, Labeling and Packaging Regulation (EC) NoPEL - Permissible Exposure Limit1272/2008REACH – Registration, Evaluation, Authorisation, and Restriction ofCOD – Chemical Oxygen DemandChemicalsEC – European CommunityRID – Regulations Concerning the International Carriage of DangerousECS – European Inventory of Existing Commercial ChemicalSDS - Safety Data SheetSubstancesSTEL - Short Term Exposure LimitEmS-No. (Spillage) - IMDG Emergency Schedule FireSTOT - Specific Target Organ ToxicityEmS-No. (Spillage) - IMDG Emergency Schedule SpillageTA-Luft - Technische Anleitung zur Reinhaltung der LuftEU – European UnionTEL K – Technische Anleitung zur Reinhaltung der LuftED – Sico ECS 0 in Terms of Reduction Growth RateThOD – Theoretical Oxygen DemandGHS – Globally Harmonized System of Classification and Labeling ofTLM - Median Tolerance LimitIATA - International Agency for Research on CancerTPRO - Trumpalaikio Poveikio Ribinis DydisIBC Code - International Maritime Dangerous GoodsTR65 S20 - Technische Regel für Gefahrstoffe 10 - Lagerung vonIBC Code - International Kibinis DydisTR65 S90 - Technische Regel für Gefahrstoffe 90 -IDEU – Undicative Occupational Exposure Limit ValueArbeitsplatzgrenzwerteIDSU – Median Lethal DosGrenzwerteLOSL – Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOGE - Lowest Observed Adverse E	BCF - Bioconcentration Factor	NTP – National Toxicology Program
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SubstancesSTEL - Short Term Exposure LimitEmS-No. (Fire) - IMDG Emergency Schedule FireSTOT - Specific Target Organ ToxicityEmS-No. (Spillage) - IMDG Emergency Schedule SpillageTA-Luft - Technical Guidance ConcentrationsEu - European UnionTEL TRK - Technical Guidance ConcentrationsErC50 - EC50 in Terms of Reduction Growth RateThOD - Theoretical Oxygen DemandGHS - Globally Harmonized System of Classification and Labeling ofTLM - Median Tolerance LimitChemicalsTLV - Threshold Limit ValueIARC - International Agency for Research on CancerTPRD - Trumpalaikio Poveikio Ribinis DydisIATA - International Maritime Dangerous GoodsTRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung vonIBC Code - International Maritime Dangerous GoodsTRGS 552 - Tecchnische Regel für Gefahrstoffe 900 -IDEV - Ilgalaikio Poveikio Ribinis DydisTRGS 900 - Technische Regel für Gefahrstoffe 900 -IDEV - Indicative Occupational Exposure Limit ValueArbeitsplatzgrenzwerteLOS 0- Median Lethal DoseGrenzwerteLOAEL - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOE C- Lowest - Observed Adverse Effect LevelVUA - Time Weighted AverageLog Koc - Soil Organic Carbon-water Partition CoefficientVLA-EC - Valor Limite Ambiental Exposición de Corta DuraciónLog Koc - Soil Organic Carbon-water partition (C) of a dissolvedVLA-EC - Valor Limite Ambiental Exposición DiariaSubstance in a two-phase system consisting of two largely immiscibleVUE - Valor Limite Ambiental ExpositionSolventa, Sam and Carbon AdvergeVUE - Valor Limite Ambienta	EEC – European Economic Community	SADT - Self Accelerating Decomposition Temperature
EmS-No. (Fire) - IMDG Emergency Schedule FireSTOT - Specific Target Organ ToxicityEmS-No. (Spillage) - IMDG Emergency Schedule SpillageTA-Luft - Technische Anleitung zur Reinhaltung der LuftEU - European UnionTEL TRK - Technische Anleitung zur Reinhaltung der LuftEU - European UnionTLU - Threshold Guidance ConcentrationsErC50 - ISC50 in Terms of Reduction Growth RateThOD - Theoretical Oxygen DemandGHS - Globally Harmonized System of Classification and Labeling ofTLM - Median Tolerance LimitChemicalsTLV - Threshold Limit ValueIATA - International Agency for Research on CancerTPRD - Trumpalaikio Poveikio Ribinis DydisIATA - International Mair Transport AssociationTRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung vonIBC Code - International Maritime Dangerous GoodsTRGS 552 - Technische Regel für Gefahrstoffe 900 -IPRV - Ilgalaikio Poveikio Ribinis DydisTRGS 900 - Technische Regel für Gefahrstoffe 900 -IOELV - Indicative Occupational Exposure Limit ValueArbeitsplatzgrenzwerteLC50 - Median Lethal ConcentrationTRGS 903 - Technische Regel für Gefahrstoffe 903 - BiologischeLD50 - Median Lethal DoseGrenzwerteLOALL - Lowest Observed Adverse Effect LevelTVA - Time Weighted AverageLog Kow - Octanol/water Partition CoefficientVLA-EC - Valor Limite Ambiental Exposición de Corta DuraciónLog Fow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-ED - Valor Limite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVLA-ED - Valor Limite Ambiental Exposición Diariasubstanc	EINECS – European Inventory of Existing Commercial Chemical	SDS - Safety Data Sheet
EmS-No. (Spillage) - IMDG Emergency Schedule SpillageTA-Luft - Technische Anleitung zur Reinhaltung der LuftEU - European UnionTEL TRK - Technical Guidance ConcentrationsErC50 - EC50 in Terms of Reduction Growth RateThOD - Theoretical Oxygen DemandGHS - Globally Harmonized System of Classification and Labeling ofTLM - Median Tolerance LimitChemicalsTLV - Threshold Limit ValueIARC - International Agency for Research on CancerTPRD - Trumpalaikio Poveikio Ribinis DydisIATA - International Air Transport AssociationTRGS 5510 - Technische Regel für Gefahrstoffe 510 - Lagerung vonIBC Code - International Maritime Dangerous GoodsTRGS 552 - Technische Regel für Gefahrstoffe 900 -IPRV - Ilgalaikio Poveikio Ribinis DydisTRGS 900 - Technische Regel für Gefahrstoffe 900 -IOELV - Indicative Occupational Exposure Limit ValueArbeitsplatzgrenzwerteLC50 - Median Lethal ConcentrationTRGS 903 - Technische Regel für Gefahrstoffe 903 - BiologischeGrenzwerteGrenzwerteLOEL - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOg Koc - Soil Organic Carbon-water Partitioning CoefficientVOC - Volatile Organic CompoundsLog Kow - Octanol/water Partition coefficientVLA-EC - Valor Límite Ambiental Exposición de Corta DuraciónLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-EC - Valor Límite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVHE - Valeur Limite De Moyenne ExpositionSolvents, in this case octanol and waterVME - Valeur Limite De Moyenne ExpositionMAK	Substances	STEL - Short Term Exposure Limit
EU - European UnionTEL TRK - Technical Guidance ConcentrationsErC50 - EC50 in Terms of Reduction Growth RateThOD - Theoretical Oxygen DemandGHS - Globally Harmonized System of Classification and Labeling of ChemicalsTLM - Median Tolerance LimitIARC - International Agency for Research on CancerTPRD - Trumpalaikio Poveikio Ribinis DydisIATA - International Air Transport AssociationTRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung vonIBC Code - International Bulk Chemical CodeGefahrstoffen in ortsbeweglichen BehälternIMDG - International Maritime Dangerous GoodsTRGS 522 - Technische Regel für Gefahrstoffe 900 -IPRV - Ilgalaikio Poveikio Ribinis DydisTRGS 900 - Technische Regel für Gefahrstoffe 900 -IDELV - Indicative Occupational Exposure Limit ValueArbeitsplatzgrenzwerteLC50 - Median Lethal ConcentrationTRGS 903 - Technische Regel für Gefahrstoffe 903 - BiologischeGrenzwerteGrenzwerteLOAEL - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOEK - Lowest - Observed Adverse Effect LevelTWA - Time Weighted AverageLog Kow - Octanol/water Partition CoefficientVLA-EC - Valor Límite Ambiental Exposición de Corta DuraciónLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-ED - Valor Límite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVLE - Valeur Limite De Moyenne ExpositionMAK - Maximum Workplace Concentration/Maximum PermissibleVME - Valeur Limite De Moyenne Exposition	EmS-No. (Fire) - IMDG Emergency Schedule Fire	STOT - Specific Target Organ Toxicity
ErC50 - EC50 in Terms of Reduction Growth RateThOD – Theoretical Oxygen DemandGHS - Globally Harmonized System of Classification and Labeling of ChemicalsTLM - Median Tolerance LimitIARC - International Agency for Research on CancerTPRD - Trumpalaikio Poveikio Ribinis DydisIATA - International Air Transport AssociationTRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung vonIBC Code - International Maritime Dangerous GoodsTRGS 552 – Technische Regel für Gefahrstoffe - N-NitrosamineIPRV - Ilgalaikio Poveikio Ribinis DydisTRGS 900 - Technische Regel für Gefahrstoffe 900 –IOELV - Indicative Occupational Exposure Limit ValueArbeitsplatzgrenzwerteLC50 - Median Lethal ConcentrationTRGS 903 - Technische Regel für Gefahrstoffe 903 - BiologischeGrenzwerteGrenzwerteLOEL - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOEC - Lowest-Observed-Effect ConcentrationTWA - Time Weighted AverageLog Kow - Octanol/water Partition CoefficientVOC - Volatile Organic CompoundsLog Kow - Octanol/water Partition CoefficientVLA-EC - Valor Límite Ambiental Exposición de Corta DuraciónLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLE - Valor Límite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVME - Valeur Limite De Moyenne ExpositionMAK - Maximum Workplace Concentration/Maximum PermissibleVME - Very Persistent and Very Bioaccumulative	EmS-No. (Spillage) - IMDG Emergency Schedule Spillage	TA-Luft - Technische Anleitung zur Reinhaltung der Luft
GHS – Globally Harmonized System of Classification and Labeling of ChemicalsTLM - Median Tolerance LimitIARC - International Agency for Research on CancerTPRD - Trumpalaikio Poveikio Ribinis DydisIATA - International Air Transport AssociationTRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung vonIBC Code - International Bulk Chemical CodeGefahrstoffen in ortsbeweglichen BehälternIMDG - International Maritime Dangerous GoodsTRGS 552 - Technische Regel für Gefahrstoffe -N-NitrosamineIPRV - Ilgalaikio Poveikio Ribinis DydisTRGS 900 - Technische Regel für Gefahrstoffe 900 -IOELV - Indicative Occupational Exposure Limit ValueArbeitsplatzgrenzwerteLC50 - Median Lethal ConcentrationTRGS 903 - Technische Regel für Gefahrstoffe 903 - BiologischeGrenzwerteGrenzwerteLOELV - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOEC - Lowest - Observed-Effect ConcentrationTWA - Time Weighted AverageLog Koc - Soil Organic Carbon-water Partitioning CoefficientVOC - Volatile Organic CompoundsLog Kow - Octanol/water Partition CoefficientVLA-EC - Valor Limite Ambiental Exposición de Corta DuraciónLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-ED - Valor Limite D'expositionsubstance in a two-phase system consisting of two largely immiscibleVLE - Valeur Limite De Moyenne ExpositionMAK - Maximum Workplace Concentration/Maximum PermissibleVME - Valeur Limite De Moyenne Exposition	EU – European Union	TEL TRK – Technical Guidance Concentrations
ChemicalsTLV - Threshold Limit ValueIARC - International Agency for Research on CancerTPRD - Trumpalaikio Poveikio Ribinis DydisIATA - International Air Transport AssociationTRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung vonIBC Code - International Bulk Chemical CodeGefahrstoffen in ortsbeweglichen BehälternIMDG - International Maritime Dangerous GoodsTRGS 552 - Technische Regel für Gefahrstoffe 900 -IPRV - Ilgalaikio Poveikio Ribinis DydisTRGS 900 - Technische Regel für Gefahrstoffe 900 -IOELV - Indicative Occupational Exposure Limit ValueArbeits platzgrenzwerteLC50 - Median Lethal ConcentrationTRGS 903 - Technische Regel für Gefahrstoffe 903 - BiologischeLD50 - Median Lethal DoseGrenzwerteLOAEL - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOEC - Lowest Observed-Effect ConcentrationTWA - Time Weighted AverageLog Koc - Soil Organic Carbon-water Partitioning CoefficientVLA-EC - Valor Límite Ambiental Exposición de Corta DuraciónLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-ED - Valor Límite D'expositionsubstance in a two-phase system consisting of two largely immiscibleVME - Valor Límite D'expositionMAK - Maximum Workplace Concentration/Maximum PermissibleVME - Valer Limite D'exposition	ErC50 - EC50 in Terms of Reduction Growth Rate	ThOD – Theoretical Oxygen Demand
IARC - International Agency for Research on CancerTPRD - Trumpalaikio Poveikio Ribinis DydisIATA - International Air Transport AssociationTRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung vonIBC Code - International Bulk Chemical CodeGefahrstoffen in ortsbeweglichen BehälternIMDG - International Maritime Dangerous GoodsTRGS 552 – Technische Regeln für Gefahrstoffe - N-NitrosamineIPRV - Ilgalaikio Poveikio Ribinis DydisTRGS 900 - Technische Regel für Gefahrstoffe 900 –IOELV - Indicative Occupational Exposure Limit ValueArbeitsplatzgrenzwerteLC50 - Median Lethal ConcentrationTRGS 903 - Technische Regel für Gefahrstoffe 903 - BiologischeLD50 - Median Lethal DoseGrenzwerteLOAEL - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOEC - Lowest Observed -Effect ConcentrationTWA - Time Weighted AverageLog Kow - Octanol/water Partitioning CoefficientVOC - Volatile Organic CampoundsLog Fow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-ED - Valor Límite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVLE - Valor Límite De Moyenne ExpositionMAK - Maximum Workplace Concentration/Maximum PermissibleVPB - Very Persistent and Very Bioaccumulative	GHS–Globally Harmonized System of Classification and Labeling of	TLM - Median Tolerance Limit
IATA - International Air Transport AssociationTRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in ortsbeweglichen BehälternIBC Code - International Bulk Chemical CodeGefahrstoffen in ortsbeweglichen BehälternIMDG - International Maritime Dangerous GoodsTRGS 552 – Technische Regeln für Gefahrstoffe - N-NitrosamineIPRV - Ilgalaikio Poveikio Ribinis DydisTRGS 900 - Technische Regel für Gefahrstoffe 900 –IOELV – Indicative Occupational Exposure Limit ValueArbeitsplatzgrenzwerteLC50 - Median Lethal ConcentrationTRGS 903 - Technische Regel für Gefahrstoffe 903 - BiologischeED50 - Median Lethal DoseGrenzwerteLOAEL - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOEC - Lowest Observed Effect ConcentrationTWA - Time Weighted AverageLog Kow - Octanol/water Partition CoefficientVLA-EC - Valor Límite Ambiental Exposición de Corta DuraciónLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-ED - Valor Límite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVLE – Valeur Limite D'expositionvMAK – Maximum Workplace Concentration/Maximum PermissiblevPvB - Very Persistent and Very Bioaccumulative	Chemicals	TLV - Threshold Limit Value
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IMDG - International Maritime Dangerous GoodsTRGS 552 – Technische Regeln für Gefahrstoffe - N-NitrosamineIPRV - Ilgalaikio Poveikio Ribinis DydisTRGS 900 - Technische Regel für Gefahrstoffe 900 –IOELV – Indicative Occupational Exposure Limit ValueArbeitsplatzgrenzwerteLC50 - Median Lethal ConcentrationTRGS 903 - Technische Regel für Gefahrstoffe 903 - BiologischeLD50 - Median Lethal DoseGrenzwerteLOAEL - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOEC - Lowest Observed-Effect ConcentrationTWA - Time Weighted AverageLog Koc - Soil Organic Carbon-water Partitioning CoefficientVOC – Volatile Organic CompoundsLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-EC - Valor Límite Ambiental Exposición de Corta Duraciónsubstance in a two-phase system consisting of two largely immiscibleVLE – Valeur Limite D'expositionsolvents, in this case octanol and waterVME – Valeur Limite De Moyenne ExpositionMAK – Maximum Workplace Concentration/Maximum PermissiblevPw - Very Persistent and Very Bioaccumulative	IATA - International Air Transport Association	TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von
IPRV - Ilgalaikio Poveikio Ribinis DydisTRGS 900 - Technische Regel für Gefahrstoffe 900 –IOELV – Indicative Occupational Exposure Limit ValueArbeitsplatzgrenzwerteLC50 - Median Lethal ConcentrationTRGS 903 - Technische Regel für Gefahrstoffe 903 - BiologischeLD50 - Median Lethal DoseGrenzwerteLOAEL - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOEC - Lowest Observed-Effect ConcentrationTWA - Time Weighted AverageLog Koc - Soil Organic Carbon-water Partitioning CoefficientVOC – Volatile Organic CompoundsLog Kow - Octanol/water Partition CoefficientVLA-EC - Valor Límite Ambiental Exposición de Corta DuraciónLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-ED - Valor Límite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVLE – Valeur Limite D'expositionsolvents, in this case octanol and waterVME – Valeur Limite De Moyenne ExpositionMAK – Maximum Workplace Concentration/Maximum PermissiblevPvB - Very Persistent and Very Bioaccumulative	IBC Code - International Bulk Chemical Code	Gefahrstoffen in ortsbeweglichen Behältern
IOELV – Indicative Occupational Exposure Limit ValueArbeitsplatzgrenzwerteLC50 - Median Lethal ConcentrationTRGS 903 - Technische Regel für Gefahrstoffe 903 - BiologischeLD50 - Median Lethal DoseGrenzwerteLOAEL - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOEC - Lowest Observed-Effect ConcentrationTWA - Time Weighted AverageLog Koc - Soil Organic Carbon-water Partitioning CoefficientVOC – Volatile Organic CompoundsLog Kow - Octanol/water Partition CoefficientVLA-EC - Valor Límite Ambiental Exposición de Corta DuraciónLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-ED - Valor Límite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVLE – Valeur Limite D'expositionsolvents, in this case octanol and waterVME – Valeur Limite De Moyenne ExpositionMAK – Maximum Workplace Concentration/Maximum PermissiblevPvB - Very Persistent and Very Bioaccumulative	IMDG - International Maritime Dangerous Goods	TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine
LC50 - Median Lethal ConcentrationTRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische GrenzwerteLD50 - Median Lethal DoseGrenzwerteLOAEL - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOEC - Lowest Observed-Effect ConcentrationTWA - Time Weighted AverageLog Koc - Soil Organic Carbon-water Partitioning CoefficientVOC – Volatile Organic CompoundsLog Kow - Octanol/water Partition CoefficientVLA-EC - Valor Límite Ambiental Exposición de Corta DuraciónLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-ED - Valor Límite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVLE – Valeur Límite D'expositionsolvents, in this case octanol and waterVME – Valeur Límite De Moyenne ExpositionMAK – Maximum Workplace Concentration/Maximum PermissiblevPvB - Very Persistent and Very Bioaccumulative	IPRV - Ilgalaikio Poveikio Ribinis Dydis	TRGS 900 - Technische Regel für Gefahrstoffe 900 –
LD50 - Median Lethal DoseGrenzwerteLOAEL - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOEC - Lowest Observed-Effect ConcentrationTWA - Time Weighted AverageLog Koc - Soil Organic Carbon-water Partitioning CoefficientVOC - Volatile Organic CompoundsLog Kow - Octanol/water Partition CoefficientVLA-EC - Valor Límite Ambiental Exposición de Corta DuraciónLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-ED - Valor Límite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVLE - Valeur Límite D'expositionsolvents, in this case octanol and waterVME - Valeur Límite De Moyenne ExpositionMAK - Maximum Workplace Concentration/Maximum PermissiblevPvB - Very Persistent and Very Bioaccumulative	IOELV – Indicative Occupational Exposure Limit Value	Arbeitsplatzgrenzwerte
LOAEL - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOEC - Lowest-Observed-Effect ConcentrationTWA - Time Weighted AverageLog Koc - Soil Organic Carbon-water Partitioning CoefficientVOC - Volatile Organic CompoundsLog Kow - Octanol/water Partition CoefficientVLA-EC - Valor Límite Ambiental Exposición de Corta DuraciónLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-ED - Valor Límite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVLE - Valeur Límite D'expositionsolvents, in this case octanol and waterVME - Valeur Límite De Moyenne ExpositionMAK - Maximum Workplace Concentration/Maximum PermissiblevPvB - Very Persistent and Very Bioaccumulative	LC50 - Median Lethal Concentration	TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische
LOEC - Lowest-Observed-Effect ConcentrationTWA - Time Weighted AverageLog Koc - Soil Organic Carbon-water Partitioning CoefficientVOC - Volatile Organic CompoundsLog Kow - Octanol/water Partition CoefficientVLA-EC - Valor Límite Ambiental Exposición de Corta DuraciónLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-EC - Valor Límite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVLE - Valor Límite D'expositionsolvents, in this case octanol and waterVME - Valeur Limite De Moyenne ExpositionMAK - Maximum Workplace Concentration/Maximum PermissiblevPvB - Very Persistent and Very Bioaccumulative	LD50 - Median Lethal Dose	Grenzwerte
Log Koc - Soil Organic Carbon-water Partitioning CoefficientVOC – Volatile Organic CompoundsLog Kow - Octanol/water Partition CoefficientVLA-EC - Valor Límite Ambiental Exposición de Corta DuraciónLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-EC - Valor Límite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVLE – Valeur Limite D'expositionsolvents, in this case octanol and waterVME – Valeur Limite De Moyenne ExpositionMAK – Maximum Workplace Concentration/Maximum PermissiblevPvB - Very Persistent and Very Bioaccumulative	LOAEL - Lowest Observed Adverse Effect Level	TSCA - Toxic Substances Control Act
Log Kow - Octanol/water Partition CoefficientVLA-EC - Valor Límite Ambiental Exposición de Corta DuraciónLog Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-EC - Valor Límite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVLA-ED - Valor Límite Ambiental Exposición Diariasolvents, in this case octanol and waterVME – Valeur Limite De Moyenne ExpositionMAK – Maximum Workplace Concentration/Maximum PermissiblevPvB - Very Persistent and Very Bioaccumulative	LOEC - Lowest-Observed-Effect Concentration	TWA - Time Weighted Average
Log Pow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-ED - Valor Límite Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVLE – Valeur Limite D'expositionsolvents, in this case octanol and waterVME – Valeur Limite De Moyenne ExpositionMAK – Maximum Workplace Concentration/Maximum PermissiblevPvB - Very Persistent and Very Bioaccumulative	Log Koc - Soil Organic Carbon-water Partitioning Coefficient	VOC – Volatile Organic Compounds
substance in a two-phase system consisting of two largely immiscibleVLE – Valeur Limite D'expositionsolvents, in this case octanol and waterVME – Valeur Limite De Moyenne ExpositionMAK – Maximum Workplace Concentration/Maximum PermissiblevPvB - Very Persistent and Very Bioaccumulative	Log Kow - Octanol/water Partition Coefficient	VLA-EC - Valor Límite Ambiental Exposición de Corta Duración
solvents, in this case octanol and water VME – Valeur Limite De Moyenne Exposition MAK – Maximum Workplace Concentration/Maximum Permissible vPvB - Very Persistent and Very Bioaccumulative	Log Pow - Ratio of the equilibrium concentration (C) of a dissolved	VLA-ED - Valor Límite Ambiental Exposición Diaria
MAK – Maximum Workplace Concentration/Maximum Permissible vPvB - Very Persistent and Very Bioaccumulative	substance in a two-phase system consisting of two largely immiscible	VLE – Valeur Limite D'exposition
	solvents, in this case octanol and water	VME – Valeur Limite De Moyenne Exposition
Concentration WEL-Workplace Exposure Limit	MAK – Maximum Workplace Concentration/Maximum Permissible	, , ,
	Concentration	WEL – Workplace Exposure Limit
MARPOL - International Convention for the Prevention of Pollution WGK - Wassergefährdungsklasse	MARPOL - International Convention for the Prevention of Pollution	WGK - Wassergefährdungsklasse
EU GHS SDS	EU GHS SDS	

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.