

Safety Data Sheet

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

Date of issue: 20/04/2024 Version: 3.1

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

1.1. Product identifier

Product Form : Mixture

Product Name : Biotin-SP-conjugated AffiniPure™ F(ab')₂ Fragment Goat Anti-Rabbit IgG (H+L)

(minimal cross-reaction to Human, Mouse, and Rat Serum Proteins)

Product Code : 111-066-144

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : For in vitro research use only. Not for diagnostic or therapeutic use. This is not a

medical device. Contact supplier for specific applications.

help@jacksonimmuno.com

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer European Contact

Jackson ImmunoResearch Laboratories, Inc.

Jackson ImmunoResearch Europe LTD

872 West 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

Email address for the person responsible for this SDS:

tech@jacksonimmuno.com

1.4. Emergency telephone number

Emergency number : +1-610-869-4024 (USA)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aquatic Chronic3 H412
Full text of hazard classes and H-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard statements (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.

EUH-statements EUH032 - Contact with acids liberates very toxic gas.

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2.3. Other hazards

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]
Sodium azide	(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
Biotin-SP-conjugated AffiniPure™ F(ab') ₂ Fragment Goat Anti-Rabbit IgG (H+L) (minimal cross-reaction to Human, Mouse, and Rat 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.	Descri	ption o	f first aic	measures
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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.

minutes. Obtain medical attention in initiation develops of 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 $% \left(1\right) =\left(1\right) \left(1\right)$

develops or persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

Symptoms/effects : 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.

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Symptoms/effects after ingestion : Ingestion may cause adverse effects. May be harmful if swallowed.

Chronic symptoms : None expected under normal conditions of use.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

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 from 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 : Hydrogen chloride. Sodium oxides. Nitrogen oxides.

case of fire

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire. Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory

protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : 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 for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental precautions

: Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment 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 personal protection and Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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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.

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 (7647-14-5)				
Latvia	OEL TWA (mg/m³)	5 mg/m³		
Lithuania	IPRV (mg/m³)	5 mg/m³		
Sodium azide (26628-22-8)				
EU	IOELV TWA (mg/m³) 0,1 mg/m³			
EU	IOELV STEL (mg/m³)	0,3 mg/m³		
EU	Notes	Possibility of significant uptake through the skin		
Austria	MAK (mg/m³)	0,1 mg/m³		
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/m³)	0,3 mg/m³		
Croatia	GVI (granicna vrijednost izloženosti) (mg/m³)	0,1 mg/m ³		
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/m³		
Cyprus	OEL STEL (mg/m³)	0,3 mg/m³		
Cyprus	OEL chemical category (CY)	Skin-potential for cutaneous absorption		
France	VLE (mg/m³)	0,3 mg/m³ (restrictive limit)		
France	VME (mg/m³)	0,1 mg/m³ (restrictive limit)		
France	OEL chemical category (FR)	Risk of cutaneous absorption		



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Germany	TRGS 900 Occupational exposure limit value (mg/m³)		
Gibraltar	Eight hours mg/m3	0,1 mg/m³	
Gibraltar	Short-term mg/m3	0,3 mg/m³	
Gibraltar	OEL chemical category (GI)	Skin notation	
Greece	OEL TWA (mg/m³)	0,3 mg/m³	
Greece	OEL TWA (ppm)	0,1 ppm	
Greece	OEL STEL (mg/m³)	0,3 mg/m³	
Greece	OEL STEL (ppm)	0,1 ppm	
USA ACGIH	ACGIH Ceiling (mg/m³)	0,29 mg/m³	
USA ACGIH	ACGIH Ceiling (ppm)	0,11 ppm	
Italy	OEL TWA (mg/m³)	0,1 mg/m³	
Italy	OEL STEL (mg/m³)	0,3 mg/m ³	
Italy	OEL chemical category (IT)	skin - potential for cutaneous absorption	
Latvia	OEL TWA (mg/m³)	0,1 mg/m³	
Latvia	OEL chemical category (LV)	skin - potential for cutaneous exposure	
Spain	VLA-ED (mg/m³)	0,1 mg/m³ (indicative limit value)	
Spain	VLA-EC (mg/m³)	0,3 mg/m³	
Spain	OEL chemical category (ES)	skin - potential for cutaneous absorption	
Switzerland	KZGW (mg/m³)	0,4 mg/m³ (inhalable dust)	
Switzerland	MAK (mg/m³)	0,2 mg/m³ (inhalable dust)	
Netherlands	Grenswaarde TGG 8H (mg/m³)	0,1 mg/m³	
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	0,3 mg/m³	
United Kingdom	WEL TWA (mg/m³)	0,1 mg/m³	
United Kingdom	WEL STEL (mg/m³)	0,3 mg/m³	
United Kingdom	WEL chemical category	Potential for cutaneous absorption	
Czech Republic	Expozicní limity (PEL) (mg/m³)	0,1 mg/m ³	
Czech Republic	OEL chemical category (CZ)	Potential for cutaneous absorption	
Denmark	Grænseværdie (langvarig) (mg/m³)	0,1 mg/m³	
Estonia	OEL TWA (mg/m³)	0,1 mg/m³	
Estonia	OEL STEL (mg/m³)	0,3 mg/m³	
Estonia	OEL chemical category (ET)	Sensitizer, Skin notation	
Finland	HTP-arvo (8h) (mg/m³)	0,1 mg/m³	
Finland	HTP-arvo (15 min)	0,3 mg/m³	
Finland	OEL chemical category (FI)	Potential for cutaneous absorption	
Hungary	AK-érték	0,1 mg/m³	
Hungary	CK-érték	0,3 mg/m³	
Ireland	OEL (8 hours ref) (mg/m³)	0,1 mg/m³	
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Ireland	OEL (15 min ref) (mg/m3)	0,3 mg/m³	
Ireland	OEL chemical category (IE)	Potential for cutaneous absorption	
Lithuania	IPRV (mg/m³)	0,1 mg/m³	
Lithuania	TPRV (mg/m³)	0,3 mg/m³	
Lithuania	OEL chemical category (LT)	Skin notation	
Luxembourg	OEL TWA (mg/m³)	0,1 mg/m³	
Luxembourg	OEL STEL (mg/m³)	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/m³)	0,3 mg/m³	
Malta	OEL chemical category (MT)	Possibility of significant uptake through the skin	
Norway	Grenseverdier (AN) (mg/m³)	0,1 mg/m³	
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	0,3 mg/m³ (value from the regulation)	
Poland	NDS (mg/m³)	0,1 mg/m³	
Poland	NDSCh (mg/m³)	0,3 mg/m³	
Romania	OEL TWA (mg/m³)	0,1 mg/m³	
Romania	OEL STEL (mg/m³)	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/m³)	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/m³ (indicative limit value)	
Portugal	OEL STEL (mg/m³)	0,3 mg/m³ (indicative limit value)	
Portugal	OEL - Ceilings (mg/m³)	0,29 mg/m³	
Portugal	OEL - Ceilings (ppm)	0,11 ppm (vapor)	
Portugal	OEL chemical category (PT) A4 - Not Classifiable as a Human Carcinogen,skin - potential for cutane exposure indicative limit value		

8.2. Exposure controls

Appropriate engineering controls

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



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Personal protective equipment : Gloves. Protective clothing. Protective goggles.







Materials for protective clothing : Chemically resistant materials and fabrics.

Hand protection : Wear protective gloves. Eye and Face Protection : Chemical safety goggles.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : If exposure limits are exceeded or irritation is experienced, approved respiratory

protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory

protection.

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Colour : Light tan solid
Odour : Odourless, as water
Odour threshold : No data available

pH : 7.6, when rehydrated with indicated volume of H₂O

Evaporation rate No data available Melting point No data available Freezing point No data available **Boiling point** No data available Flash point No data available No data available Auto-ignition temperature No data available Decomposition temerature Flammability (solid, gas) No data available Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density No data available

Solubility : Water

Partition coefficent: n-octanol/water : No data available Viscosity : No data available Explosive properties : No data available Oxidising properties : No data available Explosive limits : No data available

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.

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10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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.

10.6. Hazardous decomposition products

Sodium oxides. Hydrogen chloride gas. Nitrogen oxides.

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)
LC50 inhalation rat (mg/l)	> 42 g/m³ (Exposure time: 1 h)
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	9-4)
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 H₂O

Serious eye damage/irritation : Not classified

pH: 7,6 when rehydrated with indicated volume of H_2O

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

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.

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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])	
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	

12.2. Persistence and degradability

Biotin-SP-conjugated AffiniPure™ F(ab') ₂ Fragment Goat Anti-Rabbit IgG (H+L) (minimal cross-reaction to Human, Mouse, and Rat		
Serum Proteins)		
Persistence and degradability Not established.		

12.3. Bioaccumulative potential

Biotin-SP-conjugated AffiniPure™ F(ab') ₂ Fragment Goat Anti-Rabbit IgG (H+L) (minimal cross-reaction to Human, Mouse, and Rat		
Serum Proteins)		
Bioaccumulative potential Not established.		
Sodium chloride (7647-14-5)		
BCF fish 1 (no bioaccumulation)		

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Dispose of contents/container in accordance with local, regional, national, and

international regulations.

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.

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In accordance with ADR / RID / IMDG / IATA / ADN

ADR		IMDG	IATA	ADN	RID
14.1.	UN number				
Not regu	lated for transp	ort			
14.2.	UN proper shi	pping name			
Not app	licable	Not applicable	Not applicable	Not applicable	Not applicable
14.3.	14.3. Transport hazard class(es)				
Not app	licable	Not applicable	Not applicable	Not applicable	Not applicable
14.4.	14.4. Packing group				
Not app	licable	Not applicable	Not applicable	Not applicable	Not applicable
14.5.	14.5. Environmental hazards				
Dangero	ous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environi	ment : 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

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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

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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.
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

ACGIH – American Conference of Governmental Industrial Hygienists ADN – European Agreement Concerning the International Carriage of

Dangerous Goods by Inland Waterways

ADR - European Agreement Concerning the International Carriage of

Dangerous Goods by Road
ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
BEI - Biological Exposure Indices (BEI)
BOD – Biochemical Oxygen Demand

 ${\it CAS\ No. - Chemical\ Abstracts\ Service\ Number}$

CLP - Classification, Labeling and Packaging Regulation (EC) No

1272/2008

COD – Chemical Oxygen Demand EC – European Community EC50 - Median Effective Concentration

EEC – European Economic Community

 ${\tt EINECS-European\ Inventory\ of\ Existing\ Commercial\ Chemical}$

Substances

EmS-No. (Fire) - IMDG Emergency Schedule Fire EmS-No. (Spillage) - IMDG Emergency Schedule Spillage

EU - European Union

ErC50 - EC50 in Terms of Reduction Growth Rate

 ${\sf GHS-Globally\,Harmonized\,System\,of\,Classification\,and\,Labeling\,of}$

Chemicals

IARC - International Agency for Research on Cancer IATA - International Air Transport Association IBC Code - International Bulk Chemical Code IMDG - International Maritime Dangerous Goods IPRV - Ilgalaikio Poveikio Ribinis Dydis IOELV – Indicative Occupational Exposure Limit Value

LC50 - Median Lethal Concentration

NDS - Najwyzsze Dopuszczalne Stezenie

NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe

NOAEL - No-Observed Adverse Effect Level NOEC - No-Observed Effect Concentration NRD - Nevirsytinas Ribinis Dydis NTP – National Toxicology Program

OEL - Occupational Exposure Limits
PBT - Persistent, Bioaccumulative and Toxic

PEL - Permissible Exposure Limit

pH – Potential Hydrogen

REACH – Registration, Evaluation, Authorisation, and Restriction of

Chemicals

RID – Regulations Concerning the International Carriage of Dangerous

Goods by Rail

SADT - Self Accelerating Decomposition Temperature

SDS - Safety Data Sheet

STEL - Short Term Exposure Limit STOT - Specific Target Organ Toxicity

TA-Luft - Technische Anleitung zur Reinhaltung der Luft

TEL TRK - Technical Guidance Concentrations

ThOD – Theoretical Oxygen Demand

TLM - Median Tolerance Limit TLV - Threshold Limit Value

TPRD - Trumpalaikio Poveikio Ribinis Dydis

TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von

Gefahrstoffen in ortsbeweglichen Behältern

TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine

TRGS 900 - Technische Regel für Gefahrstoffe 900 -

Arbeitsplatzgrenzwerte

TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische



Safety Data Sheet

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

LD50 - Median Lethal Dose

LOAEL - Lowest Observed Adverse Effect Level LOEC - Lowest-Observed-Effect Concentration

Log Koc - Soil Organic Carbon-water Partitioning Coefficient

Log Kow - Octanol/water Partition Coefficient

Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible

solvents, in this case octanol and water

 ${\sf MAK-Maximum\ Workplace\ Concentration/Maximum\ Permissible}$

Concentration

MARPOL - International Convention for the Prevention of Pollution

EU GHS SDS

Grenzwerte

TSCA - Toxic Substances Control Act TWA - Time Weighted Average VOC – Volatile Organic Compounds

VLA-EC - Valor Límite Ambiental Exposición de Corta Duración

VLA-ED - Valor Límite Ambiental Exposición Diaria

VLE-Valeur Limite D'exposition

VME – Valeur Limite De Moyenne Exposition vPvB - Very Persistent and Very Bioaccumulative

WEL – Workplace Exposure Limit WGK - Wassergefährdungsklasse

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.