Safety Data Sheet

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



Date of issue: 24/04/2024

Version: 3.1

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

1.1.	Product identifier		
Product Form : Mixture		: Mixture	
Prod	uct Name	: Biotin-SP-conjug	ated AffiniPure™ Fab Fragment Goat Anti-Rat IgG, Fc _g Fragment
		Specific	
Prod	uct Code	: 112-067-008	
1.2.	Relevant identified uses of	the substance or mixture a	nd uses advised against
1.2.1.	Relevant identified uses		
Used	of the substance/mixture	: For in vitro resea	arch 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 ad	ditional information available		
1.3.	Details of the supplier of	f the safety data sheet	
Man	ufacturer		European Contact
Jacks	on ImmunoResearch Laborato	ories, 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
			help@jacksonimmuno.com
Emai	I address for the person respo	nsible for this SDS:	
tech	@jacksonimmuno.com		
1.4.	Emergency telephone nu	umber	
Emer	gency number :	+1-610-869-4024 (USA)	
SEC	TION 2: Hazards iden	tification	
2.1.	Classification of the subst	ance or mixture	
Classif	ication According to Regulation		
	tic Chronic3	H412	
Full text of hazard classes and H-statements: see section 16			
Adver	se physicochemical, human hea	alth and environmental eff	ects
	ditional information available		

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.

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]
Sodium azide	(CAS-No.) 26628-22-8	0.54	Acute Tox. 2 (Oral), H300
	(EC-No.) 247-852-1		Aquatic Acute 1, H400
	(EC Index-No.)		Aquatic Chronic 1, H410
	011-004-00-7		
Sodium phosphate dibasic	(CAS-No.) 7558-79-4	1.5	Not classified
	(EC-No.) 231-448-7		
Biotin-SP-conjugated AffiniPure™ Fab	(CAS-No.) Not assigned	1.65	Not classified
Fragment Goat Anti-Rat IgG, Fc _g			
Fragment Specific			
Sodium chloride	(CAS-No.) 7647-14-5	15.69	Not classified
	(EC-No.) 231-598-3		
Albumins, blood serum	(CAS-No.) 9048-46-8	16.12	Not classified
	(EC-No.) 232-936-2		

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.

4.3. 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.



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SECTION 5: Firefighting me	asures
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray, fog, carbon dioxide (CO ₂), 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.
	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 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 respiratory protection.
SECTION 6: Accidental rele	ase measures
	ective 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 co	ontainment 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. Contac authorities after a spill.	
6.4. Reference to other sections	
	personal protection and Section 13 for disposal considerations.
SECTION 7: Handling and st	orage
7.1. Precautions for safe handlin	lg

7.1. Frecautions for sale nanuling		
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, ir	ncluding any incompatibilities	
Technical measures	: Comply with applicable regulations.	

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

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



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Luxembourg	OEL chemical category (LU)	Possibility of significant uptake through the skin
Malta	OEL TWA (mg/m ³)	0,1 mg/m³
Malta	OEL STEL (mg/m ³)	0,3 mg/m³
Malta	OEL chemical category (MT)	Possibility of significant uptake through the skin
Norway	Grenseverdier (AN) (mg/m ³)	0,1 mg/m³
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	0,3 mg/m ³ (value from the regulation)
Poland	NDS (mg/m ³)	0,1 mg/m³
Poland	NDSCh (mg/m ³)	0,3 mg/m ³
Romania	OEL TWA (mg/m ³)	0,1 mg/m³
Romania	OEL STEL (mg/m ³)	0,3 mg/m ³
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/m ³
Slovakia	OEL chemical category (SK)	Potential for cutaneous absorption
Slovenia	OEL TWA (mg/m ³)	0,1 mg/m³
Slovenia	OEL STEL (mg/m ³)	0,3 mg/m ³
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/m ³
Portugal	OEL TWA (mg/m ³)	0,1 mg/m ³ (indicative limit value)
Portugal	OEL STEL (mg/m ³)	0,3 mg/m ³ (indicative limit value)
Portugal	OEL - Ceilings (mg/m ³)	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 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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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

3.1. Information on Saste physical and ener	
Physical 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 ₂ O
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
Auto-ignition temperature	: No data available
Decomposition temerature	: No data available
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
0.2 Others information	

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).

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.

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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) LC50 inhalation rat (mg/l) $>42 \text{ g/m}^3$ (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 (7558-79-4) 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 H₂O Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified : Not classified Carcinogenicity 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.

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])



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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 degradab	ility		
Biotin-SP-conjugated AffiniPure™ Fak	Fragment Goat Anti-Rat IgG, Fcg Fragment Specific		
Persistence and degradability	Not established.		
2.3. Bioaccumulative potential			
Biotin-SP-conjugated AffiniPure™ Fak	Fragment Goat Anti-Rat IgG, Fcg Fragment Specific		
Bioaccumulative potential Not established.			
Sodium chloride (7647-14-5)			
BCF fish 1 (no bioaccumulation)			
No additional information available L2.5. Results of PBT and vPvB as No additional information available L2.6. Other adverse effects Other information	sessment : Avoid release to the environment.		
SECTION 13: Disposal cons	siderations		
I3.1. Waste treatment method Product/Packaging disposal recommendations Ecology - waste materials			
SECTION 14: Transport inf	ormation		
he shipping description(s) stated her	ein were prepared in accordance with certain assumptions at the time the SDS was author riables that may or may not have been known at the time the SDS was issued.		

ADR		IMDG	ΙΑΤΑ	ADN	RID
14.1.	UN number				
Not reg	gulated for transp	ort			
14.2.	UN proper sh	ipping name			
Not ap	plicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3.	Transport haz	ard class(es)			
Not ap	plicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4.	Packing group)			
Not ap	plicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5.	Environmenta	al hazards			
Danger	ous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the

Biotin-SP-conjugated AffiniPure[™] Fab Fragment Goat Anti-Rat IgG, *Jackson* ImmunoResearch LABORATORIES, INC.

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environment : No	environment : No	environment : No	environment : No	environment : No
	Marine pollutant : No			
14.6. Special precautions for user				

14.0. Special precautions for use

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	: 24/04/2024	
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.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

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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	NDS - Najwyzsze Dopuszczalne Stezenie
ADN – European Agreement Concerning the International Carriage of	NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe
Dangerous Goods by Inland Waterways	NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe
ADR - European Agreement Concerning the International Carriage of	NOAEL - No-Observed Adverse Effect Level
Dangerous Goods by Road	NOEC - No-Observed Effect Concentration
ATE - Acute Toxicity Estimate	NRD - Nevirsytinas Ribinis Dydis
BCF - Bioconcentration Factor	NTP – National Toxicology Program
BEI - Biological Exposure Indices (BEI)	OEL - Occupational Exposure Limits
BOD – Biochemical Oxygen Demand	PBT - Persistent, Bioaccumulative and Toxic
CAS No Chemical Abstracts Service Number	PEL - Permissible Exposure Limit
CLP – Classification, Labeling and Packaging Regulation (EC) No	pH – Potential Hydrogen
1272/2008	REACH – Registration, Evaluation, Authorisation, and Restriction of
COD – Chemical Oxygen Demand	Chemicals
EC – European Community	RID – Regulations Concerning the International Carriage of Dangerous
EC50 - Median Effective Concentration	Goods by Rail
EEC – European Economic Community	SADT - Self Accelerating Decomposition Temperature
EINECS – European Inventory of Existing Commercial Chemical	SDS - Safety Data Sheet
Substances	STEL - Short Term Exposure Limit
EmS-No. (Fire) - IMDG Emergency Schedule Fire	STOT - Specific Target Organ Toxicity
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage	TA-Luft - Technische Anleitung zur Reinhaltung der Luft
EU – European Union	TEL TRK – Technical Guidance Concentrations
ErC50 - EC50 in Terms of Reduction Growth Rate	ThOD – Theoretical Oxygen Demand
GHS – Globally Harmonized System of Classification and Labeling of	TLM - Median Tolerance Limit
Chemicals	TLV - Threshold Limit Value
IARC - International Agency for Research on Cancer	TPRD - Trumpalaikio Poveikio Ribinis Dydis
IATA - International Air Transport Association	TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von
IBC Code - International Bulk Chemical Code	Gefahrstoffen in ortsbeweglichen Behältern
IMDG - International Maritime Dangerous Goods	TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine
IPRV - Ilgalaikio Poveikio Ribinis Dydis	TRGS 900 - Technische Regel für Gefahrstoffe 900 –
IOELV – Indicative Occupational Exposure Limit Value	Arbeitsplatzgrenzwerte
LC50 - Median Lethal Concentration	TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische
LD50 - Median Lethal Dose	Grenzwerte
LOAEL - Lowest Observed Adverse Effect Level	TSCA - Toxic Substances Control Act
LOEC - Lowest-Observed-Effect Concentration	TWA - Time Weighted Average
Log Koc - Soil Organic Carbon-water Partitioning Coefficient	VOC – Volatile Organic Compounds
Log Kow - Octanol/water Partition Coefficient	VLA-EC - Valor Límite Ambiental Exposición de Corta Duración
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved	VLA-ED - Valor Límite Ambiental Exposición Diaria
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
MAK – Maximum Workplace Concentration/Maximum Permissible	vPvB - Very Persistent and Very Bioaccumulative
Concentration	
Concentration	WEL – Workplace Exposure Limit
MARPOL - International Convention for the Prevention of Pollution	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.

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