Safety Data Sheet



According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 18/04/2024 Version: 3.1 SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product Form : Mixture Product Name : Rhodamine Red[™]-X-conjugated AffiniPure[™] Fab Fragment Goat Anti-Rabbit IgG, Fc **Fragment Specific** Product Code : 111-297-008 Relevant identified uses of the substance or mixture and uses advised against 1.2. 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. Uses advised against 1.2.2. 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 info@jacksonimmuno.com www.jacksonimmuno.com help@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 Classification of the substance or mixture 2.1. 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] H412 - Harmful to aquatic life with long lasting effects. Hazard statements (CLP) 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

EUH-statements

2.3. Other hazards

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

EUH032 - Contact with acids liberates very toxic gas.

18/04/2024

regulation.



Safety Data Sheet

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

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		
Rhodamine Red™-X-conjugated	(CAS-No.) Not assigned	1.75	Not classified
AffiniPure™ Fab Fragment Goat			
Anti-Rabbit IgG, Fc Fragment Specific			
Sodium chloride	(CAS-No.) 7647-14-5	15.68	Not classified
	(EC-No.) 231-598-3		
Albumins, blood serum	(CAS-No.) 9048-46-8	16.11	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

4.1. Description of first alu measu	
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 r	nedical 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

Safety Data Sheet



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

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.
5.2. Special hazards arising fro	m 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 release measures

6.1.	Personal precautions, protective equipment and emergency procedures		
Genera	al measures	: Avoid prolonged contact with eyes, skin and clothing.	
6.1.1.	For non-emergency personnel		
Protec	tive equipment	: Use appropriate personal protective equipment (PPE).	
Emerge	ency procedures	: Evacuate unnecessary personnel.	
6.1.2.	For emergency responders		
Protec	tive equipment	: Equip cleanup crew with proper protection.	
Emerge	ency 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 cont	ainment and cleaning up	
For co	ntainment	: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.	
Metho	ds 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 s	storage
7.1. Precautions for safe hand	ling
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 storag	e, 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.

Safety Data Sheet

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

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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	l-5)	
Latvia	OEL TWA (mg/m ³)	5 mg/m³
Lithuania	IPRV (mg/m ³)	5 mg/m ³
Sodium azide (26628-22-8	3)	
EU	IOELV TWA (mg/m³)	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/m ³)	0,3 mg/m ³
Greece	OEL TWA (ppm)	0,1 ppm
Greece	OEL STEL (mg/m ³)	0,3 mg/m ³
Greece	OEL STEL (ppm)	0,1 ppm

Safety Data Sheet



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

USA ACGIH	ACGIH Ceiling (mg/m ³)	0,29 mg/m³
USA ACGIH	ACGIH Ceiling (ppm)	0,11 ppm
Italy	OEL TWA (mg/m³)	0,1 mg/m ³
Italy	OEL STEL (mg/m ³)	0,3 mg/m ³
Italy	OEL chemical category (IT)	skin - potential for cutaneous absorption
Latvia	OEL TWA (mg/m³)	0,1 mg/m ³
Latvia	OEL chemical category (LV)	skin - potential for cutaneous exposure
Spain	VLA-ED (mg/m³)	0,1 mg/m ³ (indicative limit value)
Spain	VLA-EC (mg/m³)	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	Grens waarde TGG 8H (mg/m³)	0,1 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	0,3 mg/m ³
United Kingdom	WEL TWA (mg/m³)	0,1 mg/m ³
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/m ³
Czech Republic	OEL chemical category (CZ)	Potential for cutaneous absorption
Denmark	Grænseværdie (langvarig) (mg/m³)	0,1 mg/m ³
Estonia	OEL TWA (mg/m³)	0,1 mg/m ³
Estonia	OEL STEL (mg/m ³)	0,3 mg/m ³
Estonia	OEL chemical category (ET)	Sensitizer, Skin notation
Finland	HTP-arvo (8h) (mg/m³)	0,1 mg/m ³
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/m ³
Hungary	CK-érték	0,3 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	0,1 mg/m ³
Ireland	OEL (15 min ref) (mg/m3)	0,3 mg/m ³
Ireland	OEL chemical category (IE)	Potential for cutaneous absorption
Lithuania	IPRV (mg/m³)	0,1 mg/m³
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
Luxembourg	OEL STEL (mg/m ³)	0,3 mg/m ³
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 ³)	0,3 mg/m ³



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

Malta	OEL chemical category (MT)	Possibility of significant uptake through the skin
Norway	Grenseverdier (AN) (mg/m ³)	0,1 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	0,3 mg/m ³ (value from the regulation)
Poland	NDS (mg/m ³)	0,1 mg/m ³
Poland	NDSCh (mg/m ³)	0,3 mg/m ³
Romania	OEL TWA (mg/m ³)	0,1 mg/m ³
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/m ³
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/m ³
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/m³)	0,29 mg/m ³
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 Respiratory protection 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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: Gloves. Protective clothing. Protective goggles.



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

Safety Data Sheet

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

Physical state	: Solid
Colour	: Purple pink 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
9.2 Other 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.

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)



Safety Data Sheet



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

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 ₂ O	
Serious eye damage/irritation	: Not classified pH: 7,6 when rehydrated with indicated volume of H ₂ O	
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	 Not classified Not classified Not classified 	
Reproductive toxicity STOT-single exposure	Not classifiedNot classifiedNot classified	
Aspiration hazard Symptoms/Injuries After Inhalation Symptoms/Injuries After Skin Contact	 Not classified May be harmful or cause irritation. Prolonged exposure may cause skin irritation. 	
Symptoms/Injuries After Eye Contact Symptoms/Injuries After Ingestion	May cause slight irritation to eyes.Ingestion may cause adverse effects. May be harmful if swallowed.	
Chronic Symptoms SECTION 12: Ecological inform	: None expected under normal conditions of use.	
2.1. 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	
2.2. Persistence and degradability		

Rhodamine Red[™]-X-conjugated AffiniPure[™] Fab Fragment Goat Anti-Rabbit IgG, Fc Fragment Specific





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Persis	stence and degradability	Not established.
L 2.3 .	Bioaccumulative potential	
Rhoda	amine Red™-X-conjugated AffiniP	ure™ Fab Fragment Goat Anti-Rabbit IgG, Fc Fragment Specific
Bioac	cumulative potential	Not established.
Sodiu	m chloride (7647-14-5)	
BCF fi	sh 1	(no bioaccumulation)
L 2.4. No add	Mobility in soil itional information available	
L 2.5. No add	Results of PBT and vPvB ass itional information available	essment
L 2.6 .	Other adverse effects	
Other	information	: Avoid release to the environment.
SECT	FION 13: Disposal consi	derations
3.1.	Waste treatment methods	
	ict/Packaging disposal Imendations	: Dispose of contents/container in accordance with local, regional, national, and international regulations.
Ecolo	gy - waste materials	: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.
SECT	FION 14: Transport info	rmation
ind cai		n were prepared in accordance with certain assumptions at the time the SDS was authore ables that may or may not have been known at the time the SDS was issued. ATA / ADN

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN nur	nber			
Not regulated for	transport			
14.2. UN pro	per shipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transpo	ort 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. Enviror	mental hazards			
Dangerous for th environment : No	•	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : 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

Safety Data Sheet

Jackson ImmunoResearch

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

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	: 18/04/2024			
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.
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

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

Safety Data Sheet



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

ECS0 - Median Effective ConcentrationGoods by RailECC - European Economic CommunitySADT - Self Accelerating Decomposition TemperatureEINECS - European Inventory of Existing Commercial ChemicalSDS - Safety Data SheetSubstancesSTEL - Short Term Exposure LimitEmS-No. (Fire) - INDG Emergency Schedule FireSTOT - Specific Target Organ ToxicityEmS-No. (Spillage) - INMDG Emergency Schedule SpillageTA-Luft - Technische Anleitung zur Reinhaltung der LuftEU - European UnionTEL TRK - Technische Anleitung zur Reinhaltung der LuftEU - European UnionTLM - Median Tolerance LimitErCS0 - ECS0 in Terms of Reduction Growth RateThOD - Theoretical Oxygen DemandGHS - Globally Harmonized System of Classification and Labeling ofTLW - Median Tolerance LimitIATA - International Agency for Research on CancerTPRD- Trumpalaikio Poveikio Ribinis DydisIATA - International Maritime Dangerous GoodsTR6S 510 - Technische Regel für Gefahrstoffe - 10 - AltrosamineIPRV - Ilgalakio Poveikio Ribinis DydisTR6S 500 - Technische Regel für Gefahrstoffe 900 -IOELV - Indicative Occupational Exposure Limit ValueArbeitsplatzgrenzwerteLOS - Median Lethal DoseGernzwerteLOAEL - Lowest Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLog Kow - Octanol/water Partition CoefficientVLA - Time Ambiental Exposición DiariaLog Kow - Octanol/water Partition CoefficientVLA - C- Valor Límite Ambiental Exposición DiariaLog Kow - Octanol/water Partition (C) of a dissolvedVLA-EC - Valor Límite Ambiental Exposición DiariaSubstanceTothe	BCF - Bioconcentration Factor	NTP – National Toxicology Program
CAS No Chemical Abstracts Service NumberPEL - Permissible Exposure LimitCLP - Classification, Labeling and Packaging Regulation (EC) NopH - Potential Hydrogen1272/2008REACH - Registration, Evaluation, Authorisation, and Restriction ofCDO - Chemical Oxygen DemandChemicalsEC - European CommunityRID - Regulations Concerning the International Carriage of DangerouxEC50 - Median Effective ConcentrationGoods by RailEC50 - Luropean Economic 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 ToxicityET-Ston Colonial CommunityTEL TRK - Technical Guidance ConcentrationsErCS0 - EC50 in Terms of Reduction Growth RateThOD - Theoretical Oxygen DemandGHS - Globally Harmonized System of Classification and Labeling ofTLM - Median Tolerance LimitIARC - International Agency for Research on CancerTRND - Trumpalaikio Poveikio Ribinis DydisIARA - International Agency for Research on CancerTROS 552 - Technische Regel für Gefahrstoffe S- N-NitrosamineIPRV - Ilgalakio Poveikio Ribinis DydisTRGS 5903 - Technische Regel für Gefahrstoffe 900 -Arbeita LocanentrationTRGS 903 - Technische Regel für Gefahrstoffe 903 - BiologischeGrowset Observed Adverse Effect LevelTSCA - Toxic Substances Control ActLOELV - Indicative OccanetrationTWA - Time Weighted AverageLOELV - Indicative Occenetration (Co officientVLA-E -	BEI - Biological Exposure Indices (BEI)	OEL - Occupational Exposure Limits
CLP - Classification, Labeling and Packaging Regulation (EC) NopH - Potential Hydrogen1272/2008REACH - Regulation, Evaluation, Authorisation, and Restriction ofCOD - Chemical Oxygen DemandChemicalsEC - European CommunityRID - Regulations Concerning the International Carriage of DangerousECS - Median Effective ConcentrationGoods by RailEC - European Inventory of Existing Commercial ChemicalSDS - Safety Data SheetSubstancesSTEL - Short Term Exposure LimitEmS-No. (Spillage) - IMDG Emergency Schedule FireSTOT - Specific Target Organ ToxicityEL- European UnionTEL - Knoische Anleitung zur Reinhaltung der LuftEL - Stort Term Styposure Organ ToxicityTA-Luft - Tecchnische Anleitung zur Reinhaltung der LuftEL - European UnionTEL - Short Term Exposure LimitErCS0 - ECS0 in Terms of Reduction Growth RateThOD - Theoretical Oxygen DemandGHS - Globally Harmonized System of Classification and Labeling ofTLM - Median Tolerance LimitIARC - International Agency for Research on CancerTPRD - Trumpalaikio Poveikio Ribinis DydisIARC - International Maritime Dangerous GoodsTRGS 552 - Technische Regel für Gefahrstoffe 510 - Lagerung vonIBC Code - International Maritime Dangerous GoodsTRGS 592 - Technische Regel für Gefahrstoffe 900 –IDEU - Indicative Occupational Exposure Limit ValueTRGS 500 - Technische Regel für Gefahrstoffe 903 - Biologische GrenzwerteLOSC - Lowest Observed Adverse Effect LevelTSCA - Toxis Substances Control ActLOSC - Lowest Observed Adverse Effect LevelTSCA - Toxis Substances Control ActLOSC -	BOD – Biochemical Oxygen Demand	PBT - Persistent, Bioaccumulative and Toxic
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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 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 - BiologischeLD50 - Median Lethal DoseGrenzwerteLOEL - 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 Fow - Ratio of the equilibrium concentration (C) of a dissolvedVLA-EC - Valor Límite Ambiental Exposición de Corta DuraciónVLA-EC valor Limite D'expositionVMK - Valeur Limite D'expositionMAK - Maximum Workplace Concentration/Maximum PermissibleVPWB - Very Persistent and Very BioaccumulativeMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	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 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 Regeln 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 Fow - 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 immiscibleVWE - Valor Límite D'expositionMAK - Maximum Workplace Concentration/Maximum PermissiblevPv B - Very Persistent and Very BioaccumulativeMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	Chemicals	TLV - Threshold Limit Value
IBC 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 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 Ambiental Exposición Diariasubstance in a two-phase system consisting of two largely immiscibleVLE – Valeur Limite De Moyenne Expositionsolvents, in this case octanol and waterVME – Valeur Limite De Moyenne ExpositionMAK – Maximum Workplace Concentration / Maximum PermissiblevPvB - Very Persistent and Very BioaccumulativeWEL – Workplace Exposure LimitWEL – Workplace Exposure LimitMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	IARC - International Agency for Research on Cancer	TPRD - Trumpalaikio Poveikio Ribinis Dydis
IMDG - International Maritime Dangerous GoodsTRGS 552 – Technische Regeln für Gefahrstoffe - N-NitrosamineIPRV - Ilgalaikio Poveikio Ribinis DydisTRGS 900 - Technische Regeln 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 D'expositionsubstance in a two-phase system consisting of two largely immiscibleVME – Valeur Limite D'expositionSolvents, in this case octanol and waterVME – Valeur Limite De Moyenne ExpositionMAK – Maximum Workplace Concentration/Maximum PermissibleVPB - Very Persistent and Very BioaccumulativeWEL – Workplace Exposure LimitWGK - Wassergefährdungsklasse	IATA - International Air Transport Association	TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von
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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 BioaccumulativeConcentrationWEL – Workplace Exposure LimitMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	IMDG - International Maritime Dangerous Goods	TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine
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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 BioaccumulativeConcentrationWEL - Workplace Exposure LimitMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	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 Limite D'expositionsolvents, in this case octanol and waterVME - Valeur Limite De Moyenne ExpositionMAK - Maximum Workplace Concentration/Maximum PermissibleVPVB - Very Persistent and Very BioaccumulativeConcentrationWEL - Workplace Exposure LimitMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	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 De Moyenne Expositionsolvents, in this case octanol and waterVME - Valeur Limite De Moyenne ExpositionMAK - Maximum Workplace Concentration/Maximum PermissiblevPvB - Very Persistent and Very BioaccumulativeConcentrationWEL - Workplace Exposure LimitMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	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 BioaccumulativeConcentrationWEL – Workplace Exposure LimitMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	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 D'expositionMAK – Maximum Workplace Concentration/Maximum PermissiblevPvB - Very Persistent and Very BioaccumulativeConcentrationWEL – Workplace Exposure LimitMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	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 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 BioaccumulativeConcentrationWEL – Workplace Exposure LimitMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	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 BioaccumulativeConcentrationWEL – Workplace Exposure LimitMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	Log Kow - Octanol/water Partition Coefficient	VLA-EC - Valor Límite Ambiental Exposición de Corta Duración
substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and waterVLE – Valeur Limite D'expositionMAK – Maximum Workplace Concentration/Maximum Permissible ConcentrationVME – Valeur Limite De Moyenne ExpositionMAK – Maximum Workplace Concentration/Maximum Permissible ConcentrationvPvB - Very Persistent and Very Bioaccumulative WEL – Workplace Exposure LimitMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	Log Pow - Ratio of the equilibrium concentration (C) of a dissolved	VLA-ED - Valor Límite Ambiental Exposición Diaria
MAK – Maximum Workplace Concentration/Maximum PermissiblevPvB - Very Persistent and Very BioaccumulativeConcentrationWEL – Workplace Exposure LimitMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	substance in a two-phase system consisting of two largely immiscible	
ConcentrationWEL – Workplace Exposure LimitMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	solvents, in this case octanol and water	VME – Valeur Limite De Moyenne Exposition
ConcentrationWEL – Workplace Exposure LimitMARPOL - International Convention for the Prevention of PollutionWGK - Wassergefährdungsklasse	MAK – Maximum Workplace Concentration/Maximum Permissible	
MARPOL - International Convention for the Prevention of Pollution WGK - Wassergefährdungsklasse		
	MARPOL - International Convention for the Prevention of Pollution	• •
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.