

		(REACH) with its amendment Regulation (EU) 2015/830	
	Date	ofissue: 20/04/2024 Version: 3.1	
SECT	ION 1: Identification	of the substance/mixture and of the company/und	lertaking
1.1.	Product identifier		
	ct Form	: Mixture	
Produ	ct Name	: Brilliant Violet™ 421-conjugated AffiniPure™ Goat Anti-Rat IgG (cross-reaction to Human, Bovine, Horse, and Rabbit Serum Prote	
	ct Code	: 112-675-143	
1.2. 1.2.1.	Relevant identified uses of the Relevant identified uses	e substance or mixture and uses advised against	
Use of	the substance/mixture	: For in vitro research use only. Not for diagnostic or therapeutic medical device. Contact supplier for specific applications.	use. This is not
1.2.2.	Uses advised against		
No addi	tional information available		
1.3.	Details of the supplier of t	ne safety data sheet	
	acturer	European Contact	
	n ImmunoResearch Laboratori		
	est Baltimore Pike	Cambridge House	
	Grove, PA 19390	St Thomas' Place	
T: 800	-367-5296, 610-869-4024	Ely, Cambridgeshire CB7 4EX, UK	
	-869-0171	T: +44 (0) 1638 782616	
	jacksonimmuno.com	F: +44 (0) 1353 664675	
www.j	acksonimmuno.com	info@jacksonimmuno.com	
		help@jacksonimmuno.com	
	address for the person respons	ible for this SDS:	
-	jacksonimmuno.com		
1.4.	Emergency telephone nun		
_		1-610-869-4024 (USA)	
SECT	ION 2: Hazards identi	fication	
2.1.	Classification of the substar	ce or mixture	
	ation According to Regulation (
	c Chronic3	H412	
-	t of hazard classes and H-state	nents: see section 16	
Adverse	e physicochemical, human healt tional information available		
2.2.	Label elements		
		10 1272/2008 [CLP]	
	g According to Regulation (EC) I d statements (CLP)	H412 - Harmful to aquatic life with long lasting effects.	
	utionary statements (CLP)	P273 - Avoid release to the environment.	
FIECa		P501 - Dispose of contents/container to hazardous or special w	aste collection
		point, in accordance with local, regional, national and/or interr	
		regulation.	



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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]
Polyoxyethylene sorbitan monolaurate	(CAS-No.) 9005-64-5 (EC-No.) 500-018-3	0.06	Not classified
Brilliant Violet™ 421-conjugated AffiniPure™ Goat Anti-Rat IgG (H+L) (minimal cross-reaction to Human, Bovine, Horse, and Rabbit Serum Proteins)	(CAS-No.) Not assigned	0.54	Not classified
Sodi um azi de	(CAS-No.) 26628-22-8 (EC-No.) 247-852-1 (EC Index-No.) 011-004-00-7	0.59	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	1.65	Not classified
Sodium chloride	(CAS-No.) 7647-14-5 (EC-No.) 231-598-3	8.62	Not classified
Albumins, blood serum	(CAS-No.) 9048-46-8 (EC-No.) 232-936-2	17.71	Not classified

SECTION 4: First aid measures

4.1. Description of first aid m	easures
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	: Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	: Remove contaminated clothing. Drench affected area with water for at least 15 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.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.
4.2. Most important sympton	ns 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.
Symptoms/effects after ingestion	: Ingestion may cause adverse effects.
Chronic symptoms	: None expected under normal conditions of use.



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

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

	ce and attention. If medical advice is needed, have product container or label at hand
SECTION 5: Firefighting meas	sures
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream. Use of heavy stream of water may spread fire.
5.2. Special hazards arising fro	om the substance or mixture
Fire hazard	: Not considered flammable but may burn at high temperatures.
Explosion hazard	: Product is not explosive.
Reactivity	: Contact with acids liberates toxic gas.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO ₂). Sodium oxides. Phosphorus 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.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses.
SECTION 6: Accidental release	se measures
6.1. Personal precautions, protect	tive equipment and emergency procedures
General measures	: Avoid prolonged contact with eyes, skin and clothing.
6.1.1. For non-emergency personnel	
Protective equipment	: Use appropriate personal protective equipment (PPE).
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call 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 con	
For containment	: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.
Methods for cleaning up	: Clean up spills immediately and dispose of waste safely. Contact competent authorities after a spill.
6.4. Reference to other sections	
See Section 8 for exposure controls and pe	ersonal protection and Section 13 for disposal considerations.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe hand	
	·····o

7.2 Conditions for safe store	age including any incompatibilities
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures.
	skin and clothing.
	drinking or smoking and when leaving work. Avoid prolonged contact with eyes,
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating,

Conditions for safe storage, including any incompatibilities 1.2.



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Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep/Store away from low temperatures
	and incompatible materials. Store at 2 - 8 °C.

Incompatible materials

: Acids. Strong oxidizers.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

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Control parameters

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	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
Greece	OEL STEL (mg/m ³)	0,3 mg/m ³
Greece	OEL STEL (ppm)	0,1 ppm



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USA ACGIH	ACGIH Ceiling (mg/m³)	0,29 mg/m ³
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/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/m ³ (inhalable dust)
Netherlands	Grenswaarde TGG 8H (mg/m³)	0,1 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	0,3 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	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/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/m ³)	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/m ³

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Malta	OEL STEL (mg/m ³)	0,3 mg/m³
Malta	OEL chemical category (MT)	Possibility of significant uptake through the skir
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/m³
Poland	NDSCh (mg/m ³)	0,3 mg/m³
Romania	OEL TWA (mg/m³)	0,1 mg/m³
Romania	OEL STEL (mg/m ³)	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/m ³)	0,1 mg/m³
Slovenia	OEL STEL (mg/m ³)	0,3 mg/m³
Slovenia	OEL chemical category (SI)	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/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/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
Sodium chloride (7647-1	4-5)	
Latvia	OEL TWA (mg/m³)	5 mg/m ³
Lithuania IPRV (mg/m³) 5 mg/m ³		5 mg/m ³

8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

Materials for protective clothing Hand protection Eye and Face Protection Skin and body protection : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. 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

Other information

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
: 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	Physical state : Solid		
Colour		Colorless solid	
Odour	:	Odourless, as water	
Odour threshold	:	No data available	
рН	:	7.6, when rehydrated with indicated volume of H_2O	
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



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Acute toxicity	: Not classified (Based on available data, the classification criteria are not met)		
Polyoxyethylene sorbitan monolaurate (S	9005-64-5)		
LD50 oral rat	> 18000 mg/kg		
Sodium azide (26628-22-8)			
LD50 oral rat	27 mg/kg		
LD50 oral	45 mg/kg		
LD50 dermal rabbit	20 mg/kg		
LC50 inhalation rat (mg/l)	0,054 - 0,52 mg/l/4h (Dust/Mist - mg/l/4h)		
Phosphoric acid, disodium salt (7558-79-4	4)		
LD50 oral rat	17 g/kg		
LD50 dermal rat	> 5000 mg/kg (50% solution)		
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/m ³ (Exposure time: 1 h)		
Skin corrosion/irritation	: Not classified pH: 7,2 when rehydrated with indicated volume of H ₂ O		
Serious eye damage/irritation	 Not classified pH: 7,2 when rehydrated with indicated volume of H₂O 		
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	: Not classified : Not classified : Not classified		
Reproductive toxicity STOT-single exposure	: Not classified : Not classified		
STOT-repeated exposure	: Not classified		
Aspiration hazard	: Not classified		
Symptoms/Injuries After Inhalation Symptoms/Injuries After Skin Contact Symptoms/Injuries After Eye Contact Symptoms/Injuries After Ingestion Chronic Symptoms	 May be harmful or cause irritation. Prolonged exposure may cause skin irritation. May cause slight irritation to eyes. Ingestion may cause adverse effects. None expected under normal conditions of use. 		
SECTION 12: Ecological inforr 12.1. Toxicity	nation		

Ecology - general

: Harmful to aquatic life with long lasting effects.

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



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EC50 Daphnia 2 340,7 (340,7 - 469,2) mg/l (Exposure time: 48 h - Species: Daphnia magna	
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 degradabi	lity
Brilliant Violet™ 421-conjugated Affin Rabbit Serum Proteins)	iPure™ Goat Anti-Rat IgG (H+L) (minimal cross-reaction to Human, Bovine, Horse, and
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	· · ·
Brilliant Violet™ 421-conjugated Affin Rabbit Serum Proteins)	iPure™ Goat Anti-Rat IgG (H+L) (minimal cross-reaction to Human, Bovine, Horse, and
Bioaccumulative potential Not established.	
Sodium chloride (7647-14-5)	
BCF fish 1	(no bioaccumulation)
2.4. Mobility in soil	
lo additional information available	
o additional information available 2.5. Results of PBT and vPvB as	sessment
o additional information available 2.5. Results of PBT and vPvB ass to additional information available	sessment
o additional information available 2.5. Results of PBT and vPvB as lo additional information available 2.6. Other adverse effects	sessment : Avoid release to the environment.
o additional information available 2.5. Results of PBT and vPvB ass to additional information available 2.6. Other adverse effects Other information	: Avoid release to the environment.
o additional information available 2.5. Results of PBT and vPvB as o additional information available 2.6. Other adverse effects Other information SECTION 13: Disposal cons	: Avoid release to the environment.
lo additional information available 2.5. Results of PBT and vPvB asson to additional information available 2.6. Other adverse effects Other information SECTION 13: Disposal cons	: Avoid release to the environment. iderations

SECTION 14: Transport information

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

ADR		IMDG	ΙΑΤΑ	ADN	RID
14.1.	UN number				
Not regulated for transport					
14.2.	14.2. UN proper shipping name				
Not ap	plicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)					
Not ap	plicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group					



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Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Sodium azide (26628-22-8)

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

Phosphoric acid, disodium salt (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)

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	: 20/04/2024
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. 1 (Dermal)	Acute toxicity (dermal), Category 1	
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2	
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	



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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.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
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

Abbieviations and Actonyms	
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	WEL – Workplace Exposure Limit
MARPOL - International Convention for the Prevention of Pollution	WGK - Wassergefährdungsklasse
EU GHS SDS	



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

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.