CHEREY-NAGE



according to Regulations REACh 1907/2006/EC

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

1.1 **Product identifier**

> REF Product name

918978 NANOCOLOR NanOx Metal

REACH Registration number(s): see SECTION 3.1/3.2 or A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

1 x 30 g NanOx Metal Decomposition reagent (AR) UFI: KWCU-Q36S-T20X-HAAN

1 x 30 g NanOx Metal Neutralisation reagent (NR)

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

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0 The exposure scenario is integrated into sections 1-16. Uses advised against not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, Germany Phone: +49 2421 969 0

E-mail: sds@mn-net.com (msds@mn-net.com)

1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ)

99089 Erfurt tel. +49 361 730 730, <https://www.ggiz-erfurt.de>

You find our current versions of SDS in Internet:

<http://www.mn-net.com/SDS>

SECTION 2: Hazard identification

2.0 Classification of the complete product according to Regulation (EC) 1272/2008



GHS03 GHS07 GHS08

Signal word	DANGER
Hazard identification	Hazard classes/categories
H272	Ox. Liq. 2
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H317	Skin Sens. 1
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H335	resp. irrit. STOT SE 3

2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

30 g NanOx Metal Neutralisation reagent (NR)

Do not need labelling as hazardous

Signal word

No hazard class



FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com





according to Regulations REACh 1907/2006/EC

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30 g NanOx Metal Decomposition reagent (AR)

	GHS03	GHS07	GHS08
Signal word	DAN	GER	
Hazard identification	Hazard classes/categories		
H272	Ox. L	.iq. 2	
H302		e Tox. 4 ora	l
H315	Skin	Irrit. 2	l
	Skin		l
H315	Skin	Irrit. 2 Sens. 1	l
H315 H317	Skin Skin Eye I	Irrit. 2 Sens. 1	ıl

List of H phrases: see section 16.2

2.2 Label elements according regulation (EC) 1272/2008

According **CLP directive** inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I - 1.5.1.2). Harmful chemicals/mixtures with signal word: **WARNING** must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2). This labelling exemption is NOT valid for sensibilizing substances. Oxidizing mixtures with signal word: **DANGER** and **H272** must not be labelled with H and P phrases **until 125 mL**.

30 g NanOx Metal Neutralisation reagent (NR)

Do not need labelling as hazardous Signal word: -

30 g NanOx Metal Decomposition reagent (AR)



Signal word: DANGER H317, H334

May cause an allergic skin reaction.May cause allergy or asthma symptoms or breathing difficulties if inhaled. P261sh, P272, P280sh, P284, P302+352, P333+313, P342+311, P362+364, P501

Avoid breathing dust/vapours.Contaminated work clothing should not be allowed out of the workplace.Wear protective gloves/eye protection.[In case of inadequate ventilation] wear respiratory protection.IF ON SKIN: Wash with plenty of water.If skin irritation or rash occurs: Get medical advice/attention.If experiencing respiratory symptoms: Call a POISON CENTER/doctor.Take off contaminated clothing and wash it before reuse.Dispose of contents/container to regulated waste treatment.

Label elements of the complete product



Signal word: DANGER

H317, H334

May cause an allergic skin reaction.May cause allergy or asthma symptoms or breathing difficulties if inhaled. P261sh, P272, P280sh, P284, P302+352, P333+313, P342+311, P362+364, P501 Avoid breathing dust/vapours.Contaminated work clothing should not be allowed out of the workplace.Wear protective gloves/eye protection.[In case of inadequate ventilation] wear respiratory protection.IF ON SKIN: Wash with plenty of water.If skin irritation or rash occurs: Get medical advice/attention.If experiencing respiratory symptoms: Call a POISON CENTER/doctor.Take off contaminated clothing and wash it before reuse.Dispose of contents/container to regulated waste treatment.



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2.3 Other hazards

Possible hazards from physicochemical properties In the case of pH values are less than 5 or higher than 9 then it is irritant.

Information pertaining to particular risks to human and possible symptoms

Cause after oral intake, inhalation of vapours/dust, skin contact, impairments of health when ingested in small quantities. May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Information pertaining to particular risks to the environment PBT: not applicable

vPvB: not applicable

Possible endocrine disrupting effects no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

30 g NanOx Metal Neutralisation reagent (NR) Substance name: sodium hydrogen carbonate

CAS No.:	144-55-8
Substance rating: Formula: Pseudonym (de): REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS):	No criteria for classification or naming of chemical not required. NaHCO 3 Bicarbonat 01-2119457606-32-xxxx 206-059-0 75 - <100 % The criteria for classification are not fulfilled.

sodium peroxodisulfate

30 g NanOx Metal Decomposition reagent (AR)

Substance name:

Substance name: CAS No.:	sodium carbonate 497-19-8		
Substance rating: Formula: Pseudonym (de): REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS):	H319, Eye Irrit. 2 Na ₂ CO ₃ Soda 01-2119485498-19-xxxx 207-838-8 1 - <10 % The criteria for classification are not fulfilled.	Indice No.:	011-005-00-2

CAS No.: 7775-27-1 Substance rating: H272, Ox. Sol. 2, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2, H334, Resp. Sens. 1, H335, resp. irrit. STOT SE 3 Formula: Na 2 O 8 S 2 Pseudonym (de): Natriumpersulfat REACH Reg. No.: 01-2119495975-15-xxxx EC No .: 231-892-1 Concentration: 80 - <100 % acc. CLP (GHS): H272, Ox. Liq. 2, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2, H334, Resp. Sens. 1, H335, resp. irrit. STOT SE 3

3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.List of H and P phrases: see section 16.2.



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SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Take to a doctor, in a raised position if there are breathing difficulties.

4.1.1 After SKIN Contact

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested.

4.2 Most important symptoms and effects, both acute and delayed

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Chronic effects: Repeated contact, even in small amounts, can lead to sensitization.

4.3 Indication of any immediate medical attention and special treatment needed

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. Inform patient respectively further measures and the possibility of long-term damages. ---

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

5.1.2 Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Formation of hazardous and caustic vapour-air mixtures possible.

5.3 Advice for firefighters

No, for listed product.Product package burns like paper or plastic. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

5.4 Additional information

Danger for environment only in the event of a large-scale leakage or formation of hazardous substances.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

6.2 Environmental precautions

PBT: not applicable **vPvB:** not applicable

6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.



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6.4	Reference to other section see information in section 5.4,7,8 a		
SEC	TION 7: Handling and sto	orage	
7.1	Precautions for safe hand Handling in accordance with the te	ling st instruction, that comes with the product. Use only in we	II-ventilated working areas.
7.2	Safe storage is guaranteed in the of 12.1	ge, including any incompatibilities original packaging from MACHEREY-NAGEL. Storage cla	ss (German chemical industry): see chapt
	Storage class (VCI): Water hazard class (DE):	5.1B 1	
7.2.1	Requirements for stock roo Keep original product packages tig	ms and containers htly closed during handling and storage.	
7.3	Specific end use(s) Product for analytical use.		
SEC	TION 8: Exposure contro	ols /personal protection	
8.1	Control parameters		
	30 g NanOx Metal Neutralisa Chemical: <i>sodium hydrog</i> TRGS 900 (DE):		CAS No.: 144-55-8
	30 g NanOx Metal Decompo		
		not listed	CAS No.: 7775-27-1
		ge to a reference period of 8 hours, [STEL] Short-term exposure limit rel not listed	ated to a 15-minute period
	DNEL = Derived No-Effect L TRGS 900 (DE):	10 _{inh} mg/m³	CAS No.: 497-19-8
8.2	Exposure controls Good ventilation and extraction sys level of cleanliness must be mainta	stem in the room, floor resistant to chemicals with floor dra ained at the workplace.	ainage and washing facilities. The highest
8.2.1	Respiratory protection Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.		
8.2.2	Skin protection / Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ans or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.		
8.2.3	Eye / Face Protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.		
8.2.4	Skin protection Recommended to avoid conta	mination with these hazards.	
8.2.5	with the skin, eyes and clothin	ing snuff and storage of food in work areas and at outdoor g. Rinse any clothing on which the substance has been s er when stopping work and before eating, and then apply p	pilled, and soak it in water. Wash hands
8.2.6	Thermal hazards		
	no data available		

Do not release product into environment.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

30 g NanOx Metal Neutralisation reagent (NR)

· · · · · · · · · · · · · · · · · · ·	
a) State of aggregation:	solid
b) Colour:	white
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
I) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K _{o/w}):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available

30 g NanOx Metal Decomposition reagent (AR)

a) State of aggregation:	powder (solid)
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
 Kinematic viscosity: 	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K _{o/w}):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available

9.2 Other information

9.2.1

Information on physical hazard classes

no data available

9.2.2 Other safety-related parameters

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.

SECTION 10: Stability and reactivity

10.1 Reactivity

no further data available.

10.2 Chemical stability

no known instability.



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Printing	date: 15.05.2024	Date of issue: 26.08.2022	Version: 2.2.3.2			
0.3	Possibility of hazardous r No further data available.	reactions				
0.4	Conditions to avoid Persulfates decompose when hea	ted by splitting off oxygen. Observe the stora	age temperature printed on it. No more required.			
0.5	Incompatible materials no additional data available					
0.6	Hazardous decomposition products In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expira period under recommended conditions.					
SECT	ION 11: Toxicological i	nformation				
1.1		I classes according regulation (EC or pure substances. Quantitative data on the	•			
	TSCA Inventory: Korea Exist.Chem.Inventory: LD50 _{orl rat} :	hydrogen carbonate listed	CAS No.: 144-55-8			
	TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inventory: LD50 orl rat : Acute Effects: Cause after ora quantities. Chronic Effects: May cause s symptoms or breathing difficu	peroxodisulfate listed California Proposition Yes (PEC/18) Canada CEPA not listed, Japan PDSCL: not listed listed ≥1,0%/≥0,1%, Article 57-2 (SDS requir not listed KE-12369 902 mg/kg al intake, inhalation of vapours/dust, skin con ensitization by skin contact, also in repeated lties if inhaled.	1999: DSL Yes red) tact, impairments of health when ingested in small contact of small amounts. May cause allergy or asthma			
	TSCA Inventory: Korea Exist.Chem.Inventory: LD50 orl rat : LC_Low orl rat :	carbonate listed KE-31380 4090 mg/kg 4000 mg/kg 2,300 mg/L/2H	CAS No.: 497-19-8			
1.2	Other hazards					
	Possible endocrine disrupti no data available	ng effects				
	Other information no additional data available					
	ION 12: Ecological info					

12.1 Toxicity

Following information is valid for pure substances.

30 g NanOx Metal Neutralisation reagent (NR) Substance name: sodium hydrogen carbonate Water hazard class (DE): 1 WGK WGK No.: 374 Storage class (VCI): 12-13

CAS-Nr.: 144-55-8



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REF: 918978 Printing date: 15.05.2024	NANOCOLOR NanOx Metal Date of issue: 26.08.2022		
30 g NanOx Metal Decomp Substance name: <i>sodiul</i> Water hazard class (DE): Storage class (VCI):	osition reagent (AR) n peroxodisulfate 1 WGK No.: 1352 5.1 B	CAS-Nr.: 7775-27-1	
Substance name: sodiun LC50 _{fish/96h} : EC50 _{daphnia/48h} : Water hazard class (DE): Storage class (VCI):	n carbonate 300 mg/L 265 mg/L 1 WGK No.: 0222 12-13	CAS-Nr.: 497-19-8	

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

no data available

12.7 Other adverse effects

no additional data available

SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

13.1 Waste treatment methods

SECTION 14: Transport information

I4.3. Class: 9 I4.4. Packing group:	II			
Road transport ADR				
Classification code:		I restriction code: E	<i>.</i>	
Limited Quantity:	acc. ADR 3.3.1/251: 9	see LQ in Alternative declaration	on for transportation	
Air transport IATA DGR	DAY	000		40.100
Limited Quantity:	PAX:	960	max. quantity PAX:	
Acritime transport MDC	CAO:	960	max. quantity CAO:	10 KG
Maritime transport IMDG EmS:	F-A, S-P	Staukatagoria	А	
EIII3.	г-А, З-Р	Staukategorie:	A	
	on for transportation 1 III, Excepted Quant	i: ities (≤30 mL/∑≤1 L) = ADR/ I/	ATA E1	
JN No.: (see below) class 5. or	1 III, Excepted Quant ame: Persulphates, i III	ities (≤30 mL/∑≤1 L) = ADR/ I/	ATA E1	



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	Limited Quantity: Excepted Quantity:	PAX: CAO: E 1		max. quantity PAX: max. quantity CAO:	25 Kg 100 Kg	
	<i>Maritime transport IMDG</i> EmS:	F-A, \$	8-Q	Staukategorie:	В	
	Maritime pollutant (5.2.1.6):	P*	(Limited	Quantity (LQ) until 5 L kg p	er inner package)	
14.5	Environmental hazards none, contains only small quantities of	hazard	lous substa	ances		

- 14.6 Special precautions for user not necessary
- 14.7 Carriage in bulk by sea in accordance with IMO instruments Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020

Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017

- TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017
- TRGS 220, National aspects when preparing safety data sheets, Jan 2017

TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017

TRGS 401, Skin contact hazard - identification, assessment, action, Jun 2008, status: Feb 2011

BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan 2012

TRGS 500, Protective measures, Mai 2008

TRGS 510, Storage of hazardous substances in portable containers from March 2013, status: Oct 2015

Chapter 4, Measures when storing hazardous substances up to 50 kg (small quantity regulation)

Wasserhaushaltsgesetz - WHG, Section 3 Handling substances hazardous to water, Jul 2009, status: Aug 2016 MN leaflet/instructions for use, also at www.mn-net.com

If necessary, observe other country-specific regulations.

15.2 Chemical safety assessment

not necessary for these small amounts

SECTION 16: Other information

16.1 Changes compared to the last version

Between versions 2.2.3.2 and 2.2.2.2 following changes were applied: - 1 composition data corrected

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

List of relevant	t H phrases			
Н	Between versions 2.2.3.2 and 2.2.2.2 following changes were applied: - 1 composition data corrected			
H272	May intensify fire; oxidizer.			
H302	Harmful if swallowed.			
H315	Causes skin irritation.			
H317	May cause an allergic skin reaction.			
H319	Causes serious eye irritation.			
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
H335	May cause respiratory irritation.			
List of relevant	P phrases			
P261sh	Avoid breathing dust/vapours.			
P272	Contaminated work clothing should not be allowed out of the workplace.			
P280sh	Wear protective gloves/eye protection.			
P284	[In case of inadequate ventilation] wear respiratory protection.			
P302+352	IF ON SKIN: Wash with plenty of water.			
P333+313	If skin irritation or rash occurs: Get medical advice/attention.			

P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.



16.2.2

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	P362+364 P501	Take off contaminated clothing and wash it before a Dispose of contents/container to regulated waste tr	
6.3	Recommen	ed restriction on use	
	Look about emp	onal user. byee restrictions for young people (f. ex. 94/33/EC or DE § 22 byee restrictions for pregnant women and nursing women (f.ex kage of this product or test kit has a moderate hazardous pote	k. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)!
6.4	Sources of	ey data	
	KÜHN, BIRETT Directive 1999/9 atmospheres SUVA .CH, limi Regulation 790/ Regulation 453/ TRGS 907, Ger 487/2013/EU, a Regulation 122	Leaflets on hazardous materials, 2021 //EG Minimum requirements to improve the safety and health /alues in the air at work 2009, revised on 01/2009 009/EU, adaptation of Regulation 1272/2008/EU to technical a 010/EU, adaptation of the REACH regulation 1907/2006/EG an technical rules for listing substances and causes of sensiti aptation of regulation 1272/2008/EG to technical and scientific 2015/EU, adaptation of regulation 1272/2008/EG to technical 017/EU, adaptation of regulation 1272/2008/EG to technical	and scientific progress (1st ATP) zation, updated November 2011 Regulation progress (4th ATP) and scientific progress (7th ATP)
	Regulation 1480 Regulation 521/ TRGS 900, Ger Regulation 217/ Regulation 878/ Regulation 1183 Regulation 643/ Regulation 849/	018/EU, adaptation of Regulation 1272/2008/EC to technical a 2018/EU, adaptation of regulation 1272/2008/EG to technical 019/EU, adaptation of regulation 1272/2008/EG to technical a lan rules of technology on limit values in the air at work, as of 020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2020/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2020/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2020/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2020/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2020/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2020/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2020/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2020/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2020/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2020/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2020/2022/EU, adaptation 04 Annex VI, Part 1, of Regulation 1272/2020/2022/EU, adaptation 04 Annex VI, Part 1, of Regulation 1272/2020/2021/EU, adaptation 04 Annex VI, Part 1, of Regulation 1272/2020/2021/EU, adaptation 04 Annex VI, Part 1, of Regulation 1272/2020/2021/EU, adaptation 04 Annex VI, Part 1, of Regulation 1272/2020/2021/EU, adaptation 1272/2020/2021/EU,	and scientific progress (13th ATP) nd scientific progress (12th ATP) 03/2019 008/EC to technical and scientific progress (14th ATP) //2006/EG 2008/EC to technical and scientific progress (15th ATP) 08/EC to technical and scientific progress (16th ATP) 008/EC to technical and scientific progress (17th ATP)
	revisions/upda Reason for revi		-
		2017-11 adjustment according the ECHA registration do 2022-11 adjustment according Regulation 878/2020/EU	ssier
6.5	Further info	mation	
	revision time. T person using th appropriateness MACHEREY-N, without limitatio product to whicl	GEL GmbH & Co. KG provides the information contained here s document is intended only as a guide to the appropriate pre- product. Individuals receiving the information must exercise the for a particular purpose. GEL GmbH & Co. KG makes NO REPRESENTATIONS or W/ any warranties of merchantability, fitness for a particular purp- the information refers. Accordingly MACHEREY-NAGEL Gmb iance upon this information. See terms and conditions at the e	cautionary handling of the material by a properly trained neir independent judgement in determining its ARRANTIES, either expressed or implied, including ose with respect to the information set forth herein or th H & Co. KG will not be responsible for damages resulting
16.6	Legend / Ab	previations	
	ADR: C Act: a BAT: b CAO: C Carc: C CAS: C CLP: C	cording onvention concerning the International Carriage of Dangerous ute blogical workplace tolerance value argo Aircraft Only rcinogen lemical Abstracts Service assification, Labelling and Packaging regulation rcinogen, mutagen, reproduction toxic	Goods by Road

- Corr: corrosive
- COD: chemical oxigen demand
- CSCL: Chemical Substance Control Law (Jp)
- Dam: damage
- DNEL: Derived No-Effect Level (for workers)
- derm: dermal
- dog: EC10: dog
 - Concentration causing a toxic effect in 10% of the test organisms
- EC: European Community



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according to Regulations REACh 1907/2006/EC

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EC-Nr: EmS: EU: fish: GHS: gpg: ICAO: ihl: IMDG: intrav: ipt: ISHL: LC50:	Substance number of the EC substance inventory Guide to accident management measures on ships European Union fish (not spezified) Global Harmonized System of Classification and Labeling of Chemicals guinea pig International Civil Aviation Organization inhaled International Maritime Dangerous Goods Code intravenous intraperitonaeal Industrial Safety and Health Law (Jp) letale concentration 50%
LD50:	letale dosis 50%
leuciscus idus	: fisch, ide, orfe
MAK:	maximum workplace concentration
Met:	Metall
mus:	mouse
Muta:	mutagen
NIOSH:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynchu	is mykiss: fish, rainbow trout
orl:	oral
OSHA:	Occupational Safety and Health Administration
PAX:	transport on passenger planes allowed
PBT:	persistent, bioaccumulating, toxic substance
pH:	pH value
pimephales pr	
PNEC:	Predicted No Effected Concentration
PROC 15:	Process category 'for laboratory use'
PRTR:	Law for PRTR and Promotion of Chemical Management (Jp)
PVC:	polyvinyl chloride
quail:	bird, quail
rat:	rat
rbt:	rabbit
RD:	rapidly degradable
RE:	repeated
REACh:	Registration, Evaluation, Authorisation and Restriction of Chemicals
REF:	item number, reference number
Reg.No.:	rRegistration number
Repr: Resp:	harmful to reproduction
RIP:	respiratory REACH Implementations Projects
scu:	sub cutan
SDS:	safety data sheet
Sens:	sensitisation
STEL:	short term exposure limit
STOT:	Specific Target Organ Toxicity
SVHC:	Substance of Very High Concern
t/a:	tons per year
TCCA:	Toxic Chemicals Control Act (S. Korea)
Tox:	toxic
TSCA:	The Toxic Substances Control Act (US)
TWA:	time weighted average
TRGS:	technical regulations (DE)
vPvB:	very persistent, very bioaccumulating substance
Training	

16.7 Training advice

Regular safety training. Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.



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