

Safety Data Sheet

according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

REF: 931040	VISOCOLOR ECO Nickel	Page: 1/12
Printing date: 22.11.2022	Date of issue: 19.04.2022	Version: 2.2.2.2

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

1.1	Product identifier REF 931040 no data available VISOCOLOR ECO Nickel 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 10 g Ni-1 UFI: 72FU-C3FQ-G209-2UW8 2 x 20 mL Ni-2 UFI: J4FU-V353-S20T-Q6GA
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)
	cupplier:
1.4	Emergency telephone number
	Emergency telephone number Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service mbH + Co KG 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.ggiz-erfurt.de></https:>
	DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730, <https: www.ggiz-erfurt.de=""> Carl Rolling Ca</https:>
050	sicherno.

SECTION 2: Hazard identification

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



Signal word	DANGER
Hazard identification	Hazard classes/categories
H272	Ox. Liq. 2
H290	Met. Corr. 1
H302	Acute Tox. 4 oral
H314	Skin Corr. 1B
H315	Skin Irrit. 2
H317	Skin Sens. 1
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H335	STOT SE 3

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

20 mL Ni-2

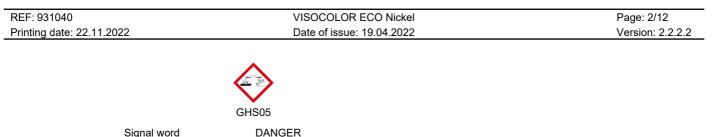


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Hazard classes/categories
Met. Corr. 1
Skin Corr. 1B

10 g Ni-1



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	STOT SE 3		

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** . Metal corrosive solutions **do not have to** be labelled with GHS symbol, signal word, H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2.1.3).

20 mL Ni-2



Signal word: DANGER H314 Causes severe skin burns and eye damage. P260sh, P280sh, P303+361+353, P305+351+338, P310 Do not breathe dust/vapours.Wear protective gloves/eye protection.IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER/doctor.

10 g Ni-1



Signal word: DANGER



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H317, H334

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. P280sh

Wear protective gloves/eye protection.

Label elements of the complete product



Signal word: DANGER H314, H317, H334

Causes severe skin burns and eye damage.May cause an allergic skin reaction.May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P260sh, P280sh, P303+361+353, P305+351+338, P310

Do not breathe dust/vapours.Wear protective gloves/eye protection.IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER/doctor.

2.3 Other hazards

Possible hazards from physicochemical properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive. In the case of pH values are less than 5 or higher than 9 then it is irritant. H290 "May be corrosive to metals." has only relevance for higher concentrations and larger amounts. The labelling GHS05 would be creating an "OVERLABELLING" (see GHS Directive 1272/2008/EC Annex I, chapter 1.5.2.1.3., until 125 mL no labelling necessary).

Information pertaining to particular risks to human and possible symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

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

Avoid contact of substance/mixture to 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

20 mL Ni-2

Substance name: CAS No.:	sodium hydroxide solution 1310-73-2		
Substance rating: Formula:	No criteria for classification or namin NaOH•H 2 O	g of chemical not required.	
Pseudonym (de):	Natronlauge		
REACH Reg. No.:	01-2119457892-27-xxxx		
EC No.:	215-185-5	Indice No.:	011-002-00-6
Concentration:	10 - <20 %		
acc. CLP (GHS):	H290, Met. Corr. 1, H314, Sk	in Corr. 1B	



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	Substance name: CAS No.:	dimethylglyoxime 95-45-4			
	Substance rating: Formula: Pseudonym (de): REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS):	H228, Flam. Sol. 1, H301, Ac C $_4$ H $_8$ N $_2$ O $_2$ Diacetyldioxim not necessary, amount <1 t/a 202-420-1 0 - <5 % The criteria for classification are not f			
10 g N	i-1				
	Substance name: CAS No.:	<i>ammonium peroxydisulfate</i> 7727-54-0			
	Formula: Pseudonym (de): REACH Reg. No.: EC No.: Concentration: acc. CLP (GHS):	H272, Ox. Sol. 2, H302, Acute 1, H335, STOT SE 3 H 8 N 2 O 8 S 2 (Di)Ammoniumpersulfat 01-2119495973-19-xxxx 231-786-5 80 - <99 % H272, Ox. Liq. 2, H302, Acute 1, H335, STOT SE 3	Indice No.:	016-060-00-6	

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.

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. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor. 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 for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. If vomiting and if insensible place patient in recovery position and 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 with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences.

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. Rapid penetration and destruction of the skin. Especially in the heated form. Causes severe skin burns and eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen. Inform patient respectively further measures and the possibility of long-term damages. ---



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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, respectively face 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**

Avoid contact of substance/mixture to environment. PBT: not applicable not applicable vPvB:

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.

6.4 **Reference to other sections**

see information in section 5.4,7,8 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas.

7.2 Conditions for safe storage, including any incompatibilities Safe storage is guaranteed in the original packaging . Storage class (German chemical industry): see chapter 12.1 Storage class (VCI): 5.1B Water hazard class (DE): 2 Requirements for stock rooms and containers 7.2.1

Keep original product packages tightly closed during handling and storage. Use inbreakable container for transport of glass bottles.

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls /personal protection

8.1 **Control parameters**

20 mL Ni-2

Chemical[.] sodium hydroxide solution DNEL: [inh] 1 mg/m³ DNEL = Derived No-Effect Level (for workers) TRGS 900 (DE): 2 mg/m³

CAS No.: 1310-73-2



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Software: M2 V 6.0.20.60

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	skin re SUVA(CH) M NIOSH: [TWA] OSHA: Chemical: DNEL DNEL: DNEL	IAK value: 2 e mg/m 2 mg/m ³ Time-weighted average to a refo [TWA] 2 <i>dimethylglyoxime</i> <i>ammonium peroxydisul</i> : [derm] 18 = Derived No-Effect Level (for w	rable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely n ³ erence period of 8 hours, [STEL] Short-term exposure limit rela mg/m ³ fate 8.2 mg/kg bw/day; [inh] 2,06 mg/m ³ orkers)	
	NIOSH: [TWA] OSHA:	not listed Time-weighted average to a refe not listed	erence period of 8 hours, [STEL] Short-term exposure limit rela	ated to a 15-minute period
3.2	Exposure controls Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.			
3.2.1	Respiratory protection Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.			
3.2.2	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 Ansel 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 or face protection.			
3.2.4	Skin protection Recommended to avoid clothing damage, and to avoid contamination with these hazards.			
3.2.5	Personal hygiene Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.			
8.2.6	Thermal haz no data avail			
8.3		d monitoring of environment.	vironmental exposure	
SECT	ION 9: Physi	cal and chemica	al properties	
9.1	Information of	on basic physical ar	nd chemical properties	
	20 mL Ni-2 a) State of ag b) Colour:	ggregation:	colourless	

b) Colour:	colourless
c) Odor:	red
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:	13-14
 Kinematic viscosity: 	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (o/w):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	1,11 g/cm³
q) Relative vapour density _(air=1) :	no data available
r) Particle size:	no data available



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9.2 Other information

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. **Properties relevant to substance groups** Substances are highly corrosive.

SECTION 10: Stability and reactivity

10.1 Reactivity

no further data available.

10.2 Chemical stability no known instability.

10.3 Possibility of hazardous reactions

Can react violently with organic material. No further data available.

10.4 Conditions to avoid

Persulfates decompose when heated by splitting off oxygen. No more required.

10.5 Incompatible materials

no additional data available

10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

SECTION 11: Toxicological information

11.1 Information on the hazard classes according regulation (EC) 1272/2008

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

20 mL Ni-2		
Chemical: s	odium hydroxide solution	CAS No.: 1310-73-2
TSCA Inventory:	listed	California Proposition 65 List: not listed
Exposure Routes:	inhalation, ingestion,	skin and/or eye contact
Target Organs:	Eyes, skin, respirator	y system
Symptoms:	irritation eyes, skin, m	nucous membrane; pneumonitis; eye, skin burns; temporary loss of hair
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR:	not listed, Japan PDS	SCL: not listed
Japan ISHL:	listed ≥1,0%/≥1,0%, A	Article 57-2 (SDS required)
South Korea TCCA:	not listed	
Korea Exist.Chem.Inver	ntory: KE-31487	
LD50 orl rat :	[40%] 1250 / [<25%] :	>2000 mg/kg



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	LD50 orl mus :	40 mg/kg	
	TSCA Inventory:	//g/yoxime listed 250 mg/kg	CAS No.: 95-45-4
	TSCA Inventory: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Inventory: LD50 ori rat: Acute Effects: Cause after ora quantities.	495 mg/kg Il intake, inhalation of vapours/dust, skin conta ensitization by skin contact, also in repeated c	1999: DSL Yes
1.2	Other hazards		
	Possible endocrine disruption no data available	ng effects	
	Other information no additional data available		
SECT	ION 12: Ecological info	rmation	
12.1	Toxicity		
	Following information is valid fo	r pure substances.	
	Following information is valid fo 20 mL Ni-2	r pure substances. hydroxide solution 35-189 mg/L 45.4 mg/L >100 mg/L 1 WGK No.: 142 8 B	CAS No.: 1310-73-2
	Following information is valid fo 20 mL Ni-2 Chemical: sodium LC50 leuciscus idus/96h : LC50 fish/96h : EC50 daphnia/48h : Water hazard class (DE): Storage class (VCI):	<i>hydroxide solution</i> 35-189 mg/L 45.4 mg/L >100 mg/L 1 WGK No.: 142	CAS No.: 1310-73-2 CAS No.: 95-45-4
	Following information is valid fo 20 mL Ni-2 Chemical: sodium LC50 leuciscus idus/96h : LC50 fish/96h : EC50 daphnia/48h : Water hazard class (DE): Storage class (VCI): Chemical: dimethy Water hazard class (DE): Storage class (VCI): 10 g Ni-1	hydroxide solution 35-189 mg/L 45.4 mg/L >100 mg/L 1 WGK No.: 142 8 B //glyoxime 2 12-13 ium peroxydisulfate 185 24h mg/L	
	Following information is valid fo 20 mL Ni-2 Chemical: sodium LC50 leuciscus idus/96h : LC50 fish/96h : EC50 daphnia/48h : Water hazard class (DE): Storage class (VCI): Chemical: dimethy Water hazard class (DE): Storage class (VCI): 10 g Ni-1 Chemical: ammon. EC50 daphnia/48h : IC50 scenedesmus quadricauda/72h Water hazard class (DE):	hydroxide solution 35-189 mg/L 45.4 mg/L >100 mg/L 1 WGK No.: 142 8 B dglyoxime 2 12-13 ium peroxydisulfate 185 24h mg/L 1 WGK No.: 0836 5.1 B	CAS No.: 95-45-4
12.2	Following information is valid fo 20 mL Ni-2 Chemical: sodium LC50 leuciscus idus/96h : LC50 fish/96h : EC50 daphnia/48h : Water hazard class (DE): Storage class (VCI): Chemical: dimethy Water hazard class (DE): Storage class (VCI): 10 g Ni-1 Chemical: ammon EC50 daphnia/48h : IC50 scenedesmus quadricauda/72t Water hazard class (DE): Storage class (VCI): Persistence and degradat	hydroxide solution 35-189 mg/L 45.4 mg/L >100 mg/L 1 WGK No.: 142 8 B //glyoxime 2 12-13 ium peroxydisulfate 185 24h mg/L 1 WGK No.: 0836 5.1 B bility	CAS No.: 95-45-4





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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

Normally it is possible to empty small amounts (diluted!) into drains. Empty containers of corrosive reagents prior to disposal, rinse with water.

SECTION 14: Transport information

14.1. UN number: 3316 14.2. UN proper shipping name: Chemical Kit 14.3. Class: 14.4. Packing group: Ш 9 Road transport ADR Classification code: M11 Tunnel restriction code: Е Limited Quantity: acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation Air transport ICAO PAX: 960 max. weight PAX: 10 KG CAO: 960 max. weight CAO: 10 KG Maritime transport IMDG Storage category: EmS: F-A, S-P A Or use Alternative declaration for transportation: UN No.: (see below) class 8 II, Excepted Quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2 or 14.1 UN number: 3266 14.2 UN proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide solution) 14.3 Class: 14.4 Packing group: 8 Road transport ADR Classification code: C5 Limited Quantity: Tunnel restriction code F 1 L Excepted Quantity: F 2 Air transport ICAO Limited Quantity: LQ22 Excepted Quantity: E 2 PAX: max. weight PAX: 851 1 L CAO: 855 max. weight CAO: 30 L Maritime transport IMDG EmS: F-A, S-B Storage category: В

14.5 Environmental hazards

none, contains only small quantities of hazardous substances

- 14.6 Special precautions for user not necessary
- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable.



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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 in preparation

16.2 List of H and P phrases

. 16.2.1

16.2.1	List of relevant H phrases		
	H272	May intensify fire; oxidizer.	
	H290	May be corrosive to metals.	
	H302	Harmful if swallowed.	
	H314	Causes severe skin burns and eye damage.	
	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.	
16.2.2	List of relevant P phrases		
	P260sh	Do not breathe dust/vapours.	
	P261sh	Avoid breathing dust/vapours.	
	P264W	Wash with water thoroughly after handling.	
	P280sh	Wear protective gloves/eye protection.	
	P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	
	P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to	
		do. Continue rinsing.	
	P310	Immediately call a POISON CENTER/doctor.	
	P330	Rinse mouth.	

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

16.3 Recommended restriction on use

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)! Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)! An individual package of this product or test kit has a moderate hazardous potential.

16.4 Sources of key data

KÜHN, BIRETT leaflets on dangerous working materials

Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres

SUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU Adaptation of the CLP Regulation 1272/2008/EU to technical and scientific progress Regulation 453/2010/EU REACH – REQUIREMENTS FOR THE PREPARATION OF SAFETY DATA SHEET TRGS 907, German engineering rules for listing substances and causes of sensitization, updated November 2011Regulation 487/2013/EU, 4. Adaptation of the CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

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according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

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Regulation 1480/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress TRGS 900, German engineering rules on limit values in the air at work, as of 03/2019 Regulation 878/2020/EU

Regulation 849/2021/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

Revisions/Updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary 2014-04 Adjustment of Regulation 487/2013/EU 2016-03 Adjustment of Regulation 1221/2015/EU

2017-11 adaptation of the ECHA registration dossier 2022-11 Adjustment of Regulation 878/2020/EU

16.5 Further information

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16.6 Legend / Abbreviations

- 5	
acc:	according
ADR:	Convention concerning the International Carriage of Dangerous Goods by Road
Act:	acute
BAT:	biological workplace tolerance value
CAO:	Cargo Aircraft Only
Carc:	carcinogen
CAS:	Chemical Abstracts Service
CLP:	Classification, Labelling and Packaging regulation
CMR:	carcinogen, mutagen, reproduction toxic
Corr:	corrosive
COD:	chemical oxigen demand
CSCL:	Chemical Substance Control Law (Jp)
Dam:	damage
DNEL:	Derived No-Effect Level (for workers)
derm:	dermal
dog:	dog
EC10:	Concentration causing a toxic effect in 10% of the test organisms
EC:	European Community
EC-Nr:	Substance number of the EC substance inventory
EmS:	Guide to accident management measures on ships
EU:	European Union
fish:	fish (not spezified)
GHS:	Global Harmonized System of Classification and Labeling of Chemicals
gpg:	guinea pig
ICAO:	International Civil Aviation Organization
ihl:	inhaled
IMDG:	International Maritime Dangerous Goods Code
intrav:	intravenous
ipt:	intraperitonaeal
İSHL:	Industrial Safety and Health Law (Jp)
LC50:	letale concentration 50%
LD50:	letale dosis 50%
leuciscus idus	
MAK:	maximum workplace concentration
Met:	Metall
mus:	mouse
Muta:	
NIOSH:	mutagen National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynchu	
orl:	oral
OSHA:	Occupational Safety and Health Administration
PAX:	transport on passenger planes allowed
PBT:	persistent, bioaccumulating, toxic substance
pH:	pH value



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Safety Data Sheet

according to Regulations 1907/2006/EC (REACh) and 2015/830/EU

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pimephales pr PNEC: PROC 15: PRTR: PVC: quail: rat:	omelas: fish, fathead minnow Predicted No Effected Concentration Process category 'for laboratory use' Law for PRTR and Promotion of Chemical Management (Jp) polyvinyl chloride bird, quail rat
rbt:	rabbit
RD:	rapidly degradable
RE:	repeated
REACh: REF:	Registration, Evaluation, Authorisation and Restriction of Chemicals item number, reference number
Reg.No.:	rRegistration number
Repr:	harmful to reproduction
Resp:	respiratory
RIP: scu:	REACH Implementations Projects 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: TCCA:	tons per year Toxic Chemicals Control Act (S. Korea)
Tox:	toxic Chemicals Control Act (S. Rolea)
TSCA:	The Toxic Substances Control Act (US)
TWA:	time weighted average
TRGS:	technical regulations (DE)
vPvB:	very persistent, very bioaccumulating substance

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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