## MACHEREY-NAGE



# Safety Data Sheet

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

REF: 985066	NANOCOLOR Nitrate 250	Page: 1/13
Printing date: 12.01.2023	Date of issue: 26.09.2022	Version: 2.2.3.16

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

1.1 **Product identifier** 

REF Product name 985066 NANOCOLOR Nitrate 250

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 11 mL NO 3 /N (R2) 20 x 4 mL Nitrate 250 (R0)

UFI: WE6U-A31D-7208-6G1H UFI: 6NMU-83AH-D20G-21SF

#### 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** 

Lieferant | Supp Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service or Call Supplier. 35 DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730 <a href="https://www.service.com/backgroup">https://www.service.com/backgroup</a> 85 Karlsruhe, Germany

You find our current versions of SDS in Internet:

<http://www.mn-net.com/SDS> +49 721 5606 0 sicherheit@carlroth.de

## **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
H226	Flam. Liq. 3
H290 H302	Met. Corr. 1 Acute Tox. 4 oral
H314	Skin Corr. 1B
H336	STOT SE 3

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

11 mL NO 3/N (R2)



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- FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com
- US Tel.: +1 888 321 62 24 sales-us@mn-net.com



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	GHS02 GHS07	
Signal word	WARNING	
-		
Hazard identification	Hazard classes/categories	
H226 H336	Flam. Liq. 3 STOT SE 3	
11550	3101323	
4 mL Nitrate 250 (R0)		
	$\land$	
	GHS05 GHS07	
Signal word	DANGER	
Hazard identification	Hazard classes/categories	
H290	Met. Corr. 1	
H302	Acute Tox. 4 oral	
H314	Skin Corr. 1B	

List of H phrases: see section 16.2

## 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). Inner packages up to 10 mL need max. 2 sýmbols (Annex I - 1.5.2.4.1/2). Harmful chemicals/mixtures with signal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I -1.5.2). 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).

11 mL NO 3/N (R2)

4 mL Nitrate 250 (R0)



GHS05 GHS07

Signal word: DANGER

H314

Causes severe skin burns and eye damage.

GHS02

GHS05

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.

## Label elements of the complete product



2.2

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany www.mn-net.com

DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com



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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.

## 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. Flammable properties.

## 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, impairments of health when ingested in small quantities.

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

## 4 mL Nitrate 250 (R0)

Substance name: CAS No.:	o-phosphoric 7664-38-2	acid		
Substance rating: Formula: Pseudonym (de): REACH Reg. No.:	H 3 PO 4 •H 2	O orsäure, E338	ox. 4 oral, H314, Skin (	Corr. 1B
EC No.:	231-633-2		Indice No .:	015-011-00-6
Concentration:	25 - <40 %			
acc. CLP (GHS):	H290, Met. C	orr. 1, H302, Acute To	ox. 4 oral, H314, Skin (	Corr. 1B
Substance name:	sulfuric acid			
CAS No.:	7664-93-9			
Substance rating:	H314, Skin C	orr 1B		
Formula:	$H_2 SO_4 (•H_2)$			
REACH Reg. No.:	01-21194588	- /		
EC No.:	231-639-5		Indice No.:	016-020-00-8
Specific concentratio	n limit:	Eye Irrit. 2; H319: 5	% ≤ C < 15 % - Skin Ir	rit. 2; H315: 5 % ≤ C < 15 % - Skin Corr
1A; H314 c ≥ 15%				
Concentration:	51 - <65 %			
acc. CLP (GHS):	H314. Skin C	orr. 1B		

11 mL NO 3/N (R2)



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	Substance name: CAS No.:	2-propanol 67-63-0		
	Substance rating: Formula: Pseudonym (de): REACH Reg. No.:	H225, Flam. Liq. 2, H319, Eye lı C <sub>3</sub> H <sub>8</sub> O Isopropanol, IPA, Propan-2-ol 01-2119457558-25-XXXX	rrit. 2, H336, STOT SE	3
	EC No.: Concentration: acc. CLP (GHS):	200-661-7 35 - <50 % H226, Flam. Liq. 3, H319, Eye lı	Indice No.: rrit. 2, H336, STOT SE	603-117-00-0 E 3
	Substance name: CAS No.:	2,6-dimethylphenol 576-26-1		
	Substance rating: Formula: Pseudonym (de): REACH Reg. No.:	H301, Acute Tox. 3 oral, H311, C <sub>8</sub> H <sub>10</sub> O; (CH <sub>3</sub> ) <sub>2</sub> -C <sub>6</sub> H <sub>3</sub> -Oł 2,6-Xylenol 01-2119552794-29-xxxx		314, Skin Corr. 1B, H411, Aquatic Chronic 2
	EC No.: Concentration: acc. CLP (GHS):	209-400-1 0,1 - <1 % The criteria for classification are not fulfi	Indice No.:	604-006-00-X

## 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.

#### 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. ---

#### 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

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. ---



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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

WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. 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 **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.

## 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 a safety bottle when shaking test tubes.

# 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): 3 Water hazard class (DE): 2 7.2.1 Requirements for stock rooms and containers

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.



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## **MACHEREY-NAGEL**



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БЕСТ	ION 8: Exposure co	ntrols /personal protection	
.1	Control parameters		
	4 mL Nitrate 250 (R0) Chemical: o-phospl	noric acid CAS	No.: 7664-38-2
	DNEL:	2.92 mg/m <sup>3</sup>	
		Effect Level (for workers)	
	EU value: TRGS 900 (DE):	[TWA] 1 /[STEL] 2 mg/m³ [8h] 1 / [15min] 2 mg/m³	
	11(03 900 (DE).	E/e respirable	
	Short-term exposure fac	stor: 2 (I), Y	
		respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely exclude	ed / (Y) certainly excluded
	SUVA(CH) MAK value: NIOSH:	1 mg/m³ TWA 1 / ST 3 mg/m³	
	NIOSH STEL:	3 mg/m <sup>3</sup>	
		d average to a reference period of 8 hours, [STEL] Short-term exposure limit related to	a 15-minute period
	OSHA:	TWA 1 mg/m³	
	Chemical: sulfuric a	cid CAS	S No.: 7664-93-9
	DNEL:	[inh] 50 μg/m³	
	DNEL = Derived No- PNEC (fresh water) : PNEC = Predicted N	Effect Level (for workers) 2.5 μg/L ο Effected Concentration	
	EU value:	$0.1 \text{ emg/m}^3$	
	TRGS 900 (DE):	0.1 E mg/m³ E/e respirable	
	Short-term exposure fac skin resorptive (H),	xtor: 1 (I), Y respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely exclude	ed / (Y) certainly excluded
	SUVA(CH) MAK value: NIOSH:	0,1 e mg/m <sup>3</sup> NTP Report on Carcinogens (RoC) List Ves (Known to be a bur	nan carcinogen): [T\\/A] 1 mg/m <sup>3</sup>
		NTP Report on Carcinogens (RoC) List Yes (Known to be a hur d average to a reference period of 8 hours, [STEL] Short-term exposure limit related to	a 15-minute period
	OSHA:	[TWA] 1 mg/m <sup>3</sup>	
	11 mL NO 3 /N (R2)		
	Chemical: 2-propar		S No.: 67-63-0
	DNEL: DNEL = Derived No.	[inh] 500 mg/m <sup>3</sup> Effect Level (for workers)	
	PNEC (fresh water) : PNEC = Predicted N		
	TRGS 900 (DE):	200 ppm / 500 mg/m³ E/e respirable	
	Short-term exposure fac skin resorptive (H),		ed / (Y) certainly excluded
	SUVA(CH) MAK value:	200 ppm / 500 mg/m <sup>3</sup>	
	TRGS 903 (DE):	[Aceton B/b, U/b] 25 mg/L B blood, U urine, a no limitation, b end of exposition or shift	
	NIOSH:	[TWA] 400 ppm / 980 mg/m <sup>3</sup>	
	NIOSH STEL: [TWA] Time-weighte	500 ppm / 1225 mg/m <sup>3</sup> d average to a reference period of 8 hours, [STEL] Short-term exposure limit related to	a 15-minute period
	OSHA:	[TWA] 400 ppm / 980 mg/m <sup>3</sup>	
	Chemical: 2,6-dime	thylphenol CAS	S No.: 576-26-1
	NIOSH:	not listed ppm	
		d average to a reference period of 8 hours, [STEL] Short-term exposure limit related to	a 15-minute period
	OSHA:	not listed ppm	

## 8.2 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.

## 8.2.1 Respiratory protection

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 Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.



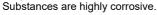
- DE Tel.: +49 24 21 969-0 info@mn-net.com
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Thhung	uale. 12.01.2023	Date 01 15506. 20.09.2022	Version: 2.2.3.10
3.2.3	<b>Eye / Face Protection</b> Yes, safety glasses according	N 166 with integrated side shields or wrap-around protection or face p	protection.
.2.4	Skin protection Recommended to avoid clothir	damage, and to avoid contamination with these hazards.	
.2.5	with the skin, eyes and clothing	snuff and storage of food in work areas and at outdoor workplaces is Rinse any clothing on which the substance has been spilled, and soa when stopping work and before eating, and then apply protective skin	ak it in water. Wash hands
8.2.6	Thermal hazards no data available		
8.3	Limitation and monitoring Do not release product into environ	-	
SECTI	ION 9: Physical and che	nical properties	
9.1	Information on basic phys	al and chemical properties	
	<ul> <li>4 mL Nitrate 250 (R0) <ul> <li>a) State of aggregation:</li> <li>b) Colour:</li> <li>c) Odor:</li> <li>d) Melting point:</li> <li>e) Boiling point:</li> <li>f) Flammability:</li> <li>g) Explosive limits (lower / upp h) Flash point:</li> <li>i) Flashing temperature:</li> <li>j) Decomposition temperature:</li> <li>k) pH value:</li> <li>l) Kinematic viscosity:</li> <li>m) Solubility in water:</li> <li>n) Dispersion coefficient (o/w) :</li> <li>o) Vapour pressure (20°C):</li> <li>p) Specific gravity:</li> <li>q) Relative vapour density (air= r) Particle size:</li> </ul></li></ul>	no data available no data available no data available 0-1 no data available 0-100 % no data available no data available 1,79 g/cm <sup>3</sup>	
	<ul> <li>11 mL NO <sub>3</sub> /N (R2)</li> <li>a) State of aggregation:</li> <li>b) Colour:</li> <li>c) Odor:</li> <li>d) Melting point:</li> <li>e) Boiling point:</li> <li>f) Flammability:</li> <li>g) Explosive limits (lower / upp h) Flash point:</li> <li>i) Flashing temperature:</li> <li>j) Decomposition temperature:</li> <li>k) pH value:</li> <li>l) Kinematic viscosity:</li> <li>m) Solubility in water:</li> <li>n) Dispersion coefficient (o/w) :</li> <li>o) Vapour pressure (20°C):</li> <li>p) Specific gravity:</li> <li>q) Relative vapour density (air=</li> <li>r) Particle size:</li> </ul>	, 18,5 °C no data available no data available 6-8 no data available 0-100 % no data available no data available 0,9 g/cm³	

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** 





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SECT	TON 10: Stability and rea	activity	
10.1	<b>Reactivity</b> Strong CORROSIVE, no further da	ta available.	
10.2	Chemical stability no known instability.		
10.3	<b>Possibility of hazardous re</b> Can react violently with organic ma		
10.4	<b>Conditions to avoid</b> Observe the storage temperature p	rinted on it. No more required.	
10.5	Incompatible materials no additional data available		
10.6	Hazardous decomposition In the original package all parts/all period under recommended conditi	reagents are safety and separated stored. Decompositions are	e not observed during the expiration

## **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.

4 mL Nitrate 250 (R0) Chemical: o-phosphoric acid CAS No.: 7664-38-2 **TSCA** Inventory: California Proposition 65 List: not listed listed ACGIH: 1 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system Symptoms: irritation eyes, skin, upper respiratory system; eye, skin, burns; dermatitis Australia NICNAS: Canada CEPA 1999: DSL Yes not listed Japan CSCL/PRTR: not listed, Japan PDSCL: not listed Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required) South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-27427 1530 mg/kg LD50 orl rat : 1,689 mg/L LC50 ihl rbt : Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. TRGS 905 (DE):  $R_F C$ Chemical: sulfuric acid CAS No.: 7664-93-9 **TSCA** Inventory: California Proposition 65 List: not listed listed ACGIH: 1 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system, teeth Symptoms: irritation eyes, skin, nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis; dental erosion; eye, skin burns; dermatitis Australia NICNAS: not listed Canada CEPA 1999: DSL Yes Japan CSCL/PRTR: not listed, Japan PDSCL: Deleterious Substance Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required) South Korea TCCA: Accident Precaution Chemical Yes Korea Exist.Chem.Inventory: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem. 2140 mg/kg LD50 orl rat : LC50 ihl mus : 0,85 mg/L/4H TRGS 905 (DE): Kat 4 11 mL NO 3/N (R2) Chemical: 2-propanol CAS No.: 67-63-0 **TSCA** Inventory: California Proposition 65 List: not listed listed ACGIH: 1230 ppm Exposure Routes: inhalation, ingestion, skin and/or eye contact Target Organs: Eyes, skin, respiratory system irritation eyes, nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis Symptoms: Australia NICNAS: Canada CEPA 1999: DSL yes MACHEREY-NAGEL GmbH & Co. KG DE Tel.: +49 24 21 969-0 info@mn-net.com





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	TSCA Inventory: Target Organs: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA:	PAC yes, Japan PDSCL: - listed ≥1,0%/≥0,1%, Article 57-2 (SDS required) KE-29363 5045 mg/kg 25 mg/L/4H R F C methylphenol CAS No.: 576-26-1 listed California Proposition 65 List: not listed Leber, Niere not listed Canada CEPA 1999: DSL yes PRTR - Class I Designated Chemical Substance Yes, Japan PDSCL: not listed not listed KE-35435, >5% Toxic 97-1-274 296 mg/kg 0,500 mg/L 450 mg/kg	
1.2	Other hazards		
	Possible endocrine disrup no data available	ing effects	
	Other information no additional data available		
БЕСТ	ION 12: Ecological infe	ormation	
2.1	Toxicity Following information is valid f	or pure substances.	
	4 mL Nitrate 250 (R0) Chemical: o-pho. LC50 <sub>fish/96h</sub> : Water hazard class (DE): Storage class (VCI):	sphoric acid CAS No.: 7664-38-2 3-3.5 mg/L 1 WGK No.: 0392 8 B	
	Chemical: sulfuri PNEC (fresh water) : PNEC = Predicted No Effected Con LC50 fish/96h : EC50 daphnia/48h : EC10 pseudomonas putita/16h : Water hazard class (DE): Storage class (VCI):	2.5 µg/L	
	11 mL NO 3 /N (R2) Chemical: 2-prop PNEC (fresh water): PNEC = Predicted No Effected Con LC50 fish/96h : EC50 daphnia/48h : IC50 scenedesmus quadricauda/7 EC10 pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient (o/w) : Storago class (/CI):	140.9 mg/L centration 1400 mg/L 13.3 g/L	
	Storage class (VCI): Chemical: 2,6-dii LC50 pimephales promelas/96h : EC50 daphnia/48h : Water hazard class (DE): Dispersion coefficient (o/w) :	nethylphenol CAS No.: 576-26-1 22-27 mg/L 11.2 mg/L 2 WGK No.: 1689 2,36	
VRheinland ERTIFIED	Management Bytem BY 160 1346 2016 BY 201075 BY	H & Co. KG DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com US Tel.: +1 888 321 62 24 sales-us@mn-net.com	



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	Storage class (VCI):	6.1 C	
12.2	Persistence and degrada	bility	
12.3	Bioaccumulative potenti not necessary	al	
12.4	Mobility in soil not necessary		
12.5	<b>Results of PBT and vPvB</b> This substance/mixture contains and very bioaccumulative (vPvB)	no components considered to be either persistent, bioaccumulat	tive and toxic (PBT) or very persistent
12.6	Endocrine disrupting properties		
12.7	Other adverse effects no additional data available		
SECI	[ION 13: Disposal cons	iderations	
	Please observe local regulations for on Information on laboratory waste dispo	ollection and disposal of hazardous waste and contact waste dis sal (waste code number 16 05 06).	sposal company, where you will obtain

## 13.1 Waste treatment methods

Not necessary, see above.

## **SECTION 14: Transport information**

```
14.1. UN number: 3316
14.2. UN proper shipping name: Chemical Kit
                           14.4. Packing group:
14.3. Class:
                                                    Ш
                    9
Road transport ADR
                                  Tunnel restriction code:
                    M11
Classification code:
                                                              Е
                    acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation
Limited Quantity:
Air transport ICAO
PAX:
                    960
                                  max. weight PAX:
                                                       10 KG
CAO:
                    960
                                  max. weight CAO:
                                                       10 KG
Maritime transport IMDG
                    F-A, S-P
EmS:
                                  Storage category:
                                                       A
Or use Alternative declaration for transportation:
UN No.: (see below) UN 1993 class 3 II, class 8 II, Excepted Quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2
or
14.1 UN number:
                    3264
14.2 UN proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (o-phosphoric acid, sulfuric acid solution)
14.3 Class:
                           14.4 Packing group: II
                    8
Road transport ADR
Classification code: C1
Limited Quantity:
                                         Tunnel restriction code:
                                                                     F
                    11
Excepted Quantity:
                    E 2
Air transport ICAO
Limited Quantity:
                           LQ 22
Excepted Quantity:
                           E 2
                                                              max. weight PAX:
PAX:
                           851
                                                                                   11
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



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```
Software: M2 V 6.0.28.156
```



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#### 14.6 Special precautions for user

not necessary

Transport in bulk according to Annex II of MARPOL and the IBC Code 14.7 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 2.2.3.16 and 2.2.2.2 following changes were applied: - 1 composition data corrected - 14 substance data corrected

#### 16.2 List of H and P phrases

#### List of relevant H phrases 16.2.1

List of relevant P nh	,
H336	May cause drowsiness or dizziness.
H319	Causes serious eye irritation.
H314	Causes severe skin burns and eye damage.
H302	Harmful if swallowed.
H290	May be corrosive to metals.
H226	Flammable liquid and vapour.

#### 16.2.2

List of relevant P phrases	
P260sh	Do not breathe dust/vapours.
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].
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.
	P260sh P280sh P303+361+353 P305+351+338

#### 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.

#### Sources of key data 16.4

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

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 Regulation 1272/2008/EU to technical and scientific progress (1st ATP) Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP) Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP)

Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)



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Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP) Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP) Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP) TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019 Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP) Regulation 878/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1907/2006/EG Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP)

#### revisions/updates

Reason for revision:

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

2017-11 adjustment according the ECHA registration dossier 2022-11 adjustment according Regulation 878/2020/EU

## 16.5 Further information

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## 16.6 Legend / Abbreviations

Logona	
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
ISHL:	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:	mutagen
NIOSH:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable



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onchorhynchu	us 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 p	romelas: fish, fathead minnow
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:	harmful to reproduction
Resp:	respiratory
RIP:	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

## 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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