

# Safety Data Sheet

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

REF: 91865	NANOCOLOR Nitrate	Page: 1/11
Printing date: 01.10.2019	Date of issue: 20.05.2019	

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

### 1.1 Product identifier

REF 91865  
 Product name NANOCOLOR Nitrate

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.

4 x 100 mL Nitrate R1  
 1 x 50 mL Nitrate R2

### 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  
 Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY  
 Tel.: +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

You find our current versions of SDS (22 languages) in Internet: <http://www.mn-net.com/SDS>

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product



GHS02 GHS05 GHS07

Signal word DANGER

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H290	Met. Corr. 1
H302	Acute Tox. 4 oral
H314	Skin Corr. 1B
H319	Eye Irrit. 2
H336	STOT SE 3

### 2.1 Classification of the substance or mixture

100 mL Nitrate R1



GHS05 GHS07

# Safety Data Sheet

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

REF: 91865	NANOCOLOR Nitrate	Page: 2/11
Printing date: 01.10.2019	Date of issue: 20.05.2019	

Signal word	DANGER
<b>Hazard identification</b>	<b>Hazard classes/categories</b>
H290	Met. Corr. 1
H302	Acute Tox. 4 oral
H314	Skin Corr. 1B

**50 mL Nitrate R2**



Signal word	WARNING
<b>Hazard identification</b>	<b>Hazard classes/categories</b>
H226	Flam. Liq. 3
H319	Eye Irrit. 2
H336	STOT SE 3

## 2.2 Label elements

According **CLP directive** inner packages must be only labelled with GHS symbol(s) and product identifier(s) (EU 1272/2008 Annex I - 1.5.1.2).

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).

**100 mL Nitrate R1**



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.

**50 mL Nitrate R2**



Signal word: WARNING

## 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. Flammable properties. ---

# Safety Data Sheet

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

REF: 91865

NANOCOLOR Nitrate

Page: 3/11

Printing date: 01.10.2019

Date of issue: 20.05.2019

**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

**Other hazards**

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

**100 mL Nitrate R1**

Chemical:	<i>o</i> -phosphoric acid	CAS No.:	7664-38-2
Classification:	H290, Met. Corr. 1, H302, Acute Tox. 4 oral, H314, Skin Corr. 1B		
Formula:	H <sub>3</sub> PO <sub>4</sub> •H <sub>2</sub> O		
Pseudonym:	orthophosphoric acid		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119485924-24-xxxx		
EC No.:	231-633-2	Indice No.:	015-011-00-6
RTECS:	TB6300000		
KE No.:	KE-27427		
Concentration:	25 - <40 %		
acc. CLP (GHS):	H290, Met. Corr. 1, H302, Acute Tox. 4 oral, H314, Skin Corr. 1B		

Chemical:	<i>sulfuric acid</i>	CAS No.:	7664-93-9
Classification:	H314, Skin Corr. 1B		
Formula:	H <sub>2</sub> SO <sub>4</sub> (•H <sub>2</sub> O)		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119458838-20-xxxx		
EC No.:	231-639-5	Indice No.:	016-020-00-8
RTECS:	WS5600000		
KE No.:	KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem.		
Concentration:	51 - <65 %		
acc. CLP (GHS):	H314, Skin Corr. 1B		

**50 mL Nitrate R2**

Chemical:	<i>2,6-dimethylphenol</i>	CAS No.:	576-26-1
Classification:	H301, Acute Tox. 3 oral, H311, Acute Tox. 3 derm., H314, Skin Corr. 1B, H411, Aquatic Chronic 2		
Formula:	C <sub>8</sub> H <sub>10</sub> O; (CH <sub>3</sub> ) <sub>2</sub> -C <sub>6</sub> H <sub>3</sub> -OH		
Pseudonym:	2,6-xylenol		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119552794-29-xxxx		
EC No.:	209-400-1	Indice No.:	604-006-00-X
RTECS:	ZE6125000	MFCD:	00002240
KE No.:	KE-35435, >5% Toxic 97-1-274		
Concentration:	0,1 - <1 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

Chemical:	<i>2-propanol</i>	CAS No.:	67-63-0
Classification:	H225, Flam. Liq. 2, H319, Eye Irrit. 2, H336, STOT SE 3		
Formula:	C <sub>3</sub> H <sub>8</sub> O		
Pseudonym:	isopropanol, IPA, propan-2-ol		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119457558-25-XXXX		
EC No.:	200-661-7	Indice No.:	603-117-00-0
RTECS:	NT8050000	MFCD:	00011674
KE No.:	KE-29363		
Concentration:	35 - <50 %		
acc. CLP (GHS):	H226, Flam. Liq. 3, H319, Eye Irrit. 2, H336, STOT SE 3		



# Safety Data Sheet

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

REF: 91865

NANOCOLOR Nitrate

Page: 4/11

Printing date: 01.10.2019

Date of issue: 20.05.2019

## 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 16.1

## 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

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### 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 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 DISTRESSES ensure that the patient inhales oxygen. ---

## SECTION 5: Firefighting measures

### 5.1 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.

### 5.2 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

# Safety Data Sheet

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

REF: 91865	NANOCOLOR Nitrate	Page: 5/11
Printing date: 01.10.2019	Date of issue: 20.05.2019	

not necessary

### 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 ---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

### 7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage.

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.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 100 mL Nitrate R1

Chemical: *o-phosphoric acid* CAS No.: 7664-38-2

DNEL: 2.92 mg/m<sup>3</sup>  
DNEL = Derived No-Effect Level (for workers)

EU value: [TWA] 1 / [STEL] 2 mg/m<sup>3</sup>  
TRGS 900 (DE): [8h] 1 / [15min] 2 mg/m<sup>3</sup>  
E/e respirable

Short-term exposure factor: 2 (I), Y  
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 1 mg/m<sup>3</sup>  
NIOSH: TWA 1 / ST 3 mg/m<sup>3</sup>

NIOSH STEL: 3 mg/m<sup>3</sup>  
[TWA] Time-weighted 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>

Chemical: *sulfuric acid* CAS No.: 7664-93-9

DNEL: [inh] 50 µg/m<sup>3</sup>  
DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: 2.5 µg/L  
PNEC = Predicted No Effect Concentration

EU value: 0.1 e mg/m<sup>3</sup>  
TRGS 900 (DE): 0.1 E mg/m<sup>3</sup>  
E/e respirable

Short-term exposure factor: 1 (I), Y  
skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 0,1 e mg/m<sup>3</sup>  
NIOSH: NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); [TWA] 1 mg/m<sup>3</sup>  
[TWA] Time-weighted 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>

#### 50 mL Nitrate R2

Chemical: *2,6-dimethylphenol* CAS No.: 576-26-1

NIOSH: not listed ppm  
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: not listed ppm

# Safety Data Sheet

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

REF: 91865

NANOCOLOR Nitrate

Page: 6/11

Printing date: 01.10.2019

Date of issue: 20.05.2019

Chemical: 2-propanol CAS No.: 67-63-0  
 DNEL: [inh] 500 mg/m<sup>3</sup>  
 DNEL = Derived No-Effect Level (for workers)  
 PNEC (fresh water): 140.9 mg/L  
 PNEC = Predicted No Effect Concentration  
 TRGS 900 (DE): 200 ppm / 500 mg/m<sup>3</sup>  
 E/e respirable  
 Short-term exposure factor: 2 (II), Y  
 skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (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: 500 ppm / 1225 mg/m<sup>3</sup>  
 [TWA] Time-weighted 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>

## 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 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.

### 8.2.3 Eye protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection or face protection.

### 8.2.4 Skin protection

Recommended to avoid clothing damage, and to avoid contamination with these hazards.

### 8.2.5 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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### 100 mL Nitrate R1

Appearance: liquid	Colour: colourless	Odor: odorless
pH:	0-1	
Specific gravity:	1,79 g/cm <sup>3</sup>	
Solubility in water:	0-100 %	

#### 50 mL Nitrate R2

Appearance: liquid	Colour: colourless	Odor: penetrative
Flash point:	24 °C	

### 9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

#### Relevant Properties of Substance Group

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no further data available.

### 10.2 Chemical stability

No known instability.

# Safety Data Sheet

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

REF: 91865

NANOCOLOR Nitrate

Page: 7/11

Printing date: 01.10.2019

Date of issue: 20.05.2019

## 10.3 Possibility of hazardous reactions

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

## 10.4 Conditions to avoid

Not necessary. Observe labeled storage temperature. ---

## 10.5 Incompatible materials

Avoid contact with strong acids or alkalines.

## 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 toxicological effects

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

#### 100 mL Nitrate R1

Chemical:	<i>o</i> -phosphoric acid	CAS No.:	7664-38-2
TSCA Inventory:	listed	California Proposition 65 List:	not 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:	not listed	Canada CEPA 1999:	DSL Yes
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		
LD50 <sub>orl rat</sub> :	1530 mg/kg		
LC50 <sub>ihl rbt</sub> :	1.689 mg/L		
LD50 <sub>drm rbt</sub> :	2750 mg/kg		
Acute Effects:	Cause after oral intake, impairments of health when ingested in small quantities.		
TRGS 905 (DE):	R <sub>F</sub> C		

Chemical:	<i>sulfuric acid</i>	CAS No.:	7664-93-9
TSCA Inventory:	listed	California Proposition 65 List:	not 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.		
LD50 <sub>orl rat</sub> :	2140 mg/kg		
LC50 <sub>ihl rat</sub> :	[8h] 600/ [4h] 850 mg/m <sup>3</sup>		
TRGS 905 (DE):	Kat 4		

#### 50 mL Nitrate R2

Chemical:	<i>2,6-dimethylphenol</i>	CAS No.:	576-26-1
TSCA Inventory:	listed	California Proposition 65 List:	not listed
Target Organs:	Leber, Niere		
Australia NICNAS:	not listed	Canada CEPA 1999:	DSL yes
Japan CSCL/PRTR:	PRTR - Class I Designated Chemical Substance Yes, Japan PDSCL: not listed		
Japan ISHL:	not listed		
South Korea TCCA:	not listed		
Korea Exist.Chem.Inventory:	KE-35435, >5% Toxic 97-1-274		
LD50 <sub>orl rat</sub> :	296 mg/kg		
LC <sub>LoWihl rbt</sub> :	500 mg/m <sup>3</sup>		
LD50 <sub>drm rat</sub> :	2325 mg/kg		
LD50 <sub>drm rbt</sub> :	1000 mg/kg		
LD50 <sub>orl mus</sub> :	450 mg/kg		

# Safety Data Sheet

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

REF: 91865	NANOCOLOR Nitrate	Page: 8/11
Printing date: 01.10.2019	Date of issue: 20.05.2019	

Chemical:	<i>2-propanol</i>	CAS No.: 67-63-0
TSCA Inventory:	listed	California Proposition 65 List: not listed
ACGIH:	1230 ppm	
Exposure Routes:	inhalation, ingestion, skin and/or eye contact	
Target Organs:	Eyes, skin, respiratory system	
Symptoms:	irritation eyes, nose, throat; drowsiness, dizziness, headache; dry cracking skin; in animals: narcosis	
Australia NICNAS:		Canada CEPA 1999: DSL yes
Japan CSCL/PRTR:	PAC yes, Japan PDSCL: -	
Japan ISHL:	listed $\geq 1,0\%$ / $\geq 0,1\%$ , Article 57-2 (SDS required)	
South Korea TCCA:		
Korea Exist.Chem.Inventory:	KE-29363	
LD50 <sub>orl rat</sub> :	5045 mg/kg	
LC <sub>LoWorl hmn</sub> :	3570 mg/kg	
LC50 <sub>ihl rat</sub> :	164h g/m <sup>3</sup>	
LD50 <sub>drm rbt</sub> :	12.8 g/kg	
TRGS 905 (DE):	R <sub>F</sub> C	

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 100 mL Nitrate R1

Chemical:	<i>o-phosphoric acid</i>	CAS No.: 7664-38-2
Avoid contact of substance/mixture to environment.		
LC50 <sub>fish/96h</sub> :	3-3.5 mg/L	
Water hazard class (DE):	1	WGK No.: 0392
Storage class (VCI):	8 B	

Chemical:	<i>sulfuric acid</i>	CAS No.: 7664-93-9
Avoid contact of substance/mixture to environment.		
PNEC <sub>(fresh water)</sub> :	2.5 µg/L	
PNEC = Predicted No Effect Concentration		
LC50 <sub>fish/96h</sub> :	[NOEC, 65d] 25 µg/L	
EC50 <sub>daphnia/48h</sub> :	100 mg/L	
EC10 <sub>pseudomonas putita/16h</sub> :	[72h] 100 mg/L	
Water hazard class (DE):	1	WGK No.: 0182
Storage class (VCI):	8 B	

#### 50 mL Nitrate R2

Chemical:	<i>2,6-dimethylphenol</i>	CAS No.: 576-26-1
LC50 <sub>pimephales promelas/96h</sub> :	22-27 mg/L	
EC50 <sub>daphnia/48h</sub> :	11.2 mg/L	
Water hazard class (DE):	2	WGK No.: 1689
Dispersion coefficient <sub>(octanol-water)</sub> :	2.36	
Storage class (VCI):	6.1 C	

Chemical:	<i>2-propanol</i>	CAS No.: 67-63-0
PNEC <sub>(fresh water)</sub> :	140.9 mg/L	
PNEC = Predicted No Effect Concentration		
LC50 <sub>fish/96h</sub> :	1400 mg/L	
EC50 <sub>daphnia/48h</sub> :	13.3 g/L	
IC50 <sub>scenedesmus quadricauda/72h</sub> :	>1000 mg/L	
EC10 <sub>pseudomonas putita/16h</sub> :	EC5: 1050 mg/L	
Water hazard class (DE):	1	WGK No.: 0135
Dispersion coefficient <sub>(octanol-water)</sub> :	0.05	
Storage class (VCI):	3	

### 12.2 Persistence and degradability

not necessary



# Safety Data Sheet

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

REF: 91865	NANOCOLOR Nitrate	Page: 9/11
Printing date: 01.10.2019	Date of issue: 20.05.2019	

- 12.3 Bioaccumulative potential**  
not necessary
- 12.4 Mobility in soil**  
not necessary
- 12.5 Results of PBT and vPvB assessment**  
no data available
- 12.6 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: 9**    **14.4. Packing group: II**  
*Road transport*  
 Classification code: M11    Tunnel restriction code: E  
 Limited Quantity: acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation  
*Air transport*  
 PAX: 960    max. weight PAX: 10 KG  
 CAO: 960    max. weight CAO: 10 KG  
*Maritime transport*  
 EmS: F-A, S-P    Storage category: A

Or use **Alternative declaration for transportation:**

**14.1 UN number: 1993**    **14.2 UN proper shipping name: Flammable liquid, n.o.s. (2-propanol mixture)**  
**14.3 Class: 3**    **14.4 Packing group: II**  
*Road transport*  
 Classification code: F1    Tunnel restriction code: E  
 Limited Quantity: 1 L    Special instructions: 640C  
 Excepted Quantity: E 2  
*Air transport*  
 PAX: 353    max. weight PAX: 5 L  
 CAO: 364    max. weight CAO: 60 L  
*Maritime transport*  
 EmS: F-E, S-E    Storage category: B

**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: 8**    **14.4 Packing group: II**  
*Road transport*  
 Classification code: C1    Tunnel restriction code: E  
 Limited Quantity: 1 L  
 Excepted Quantity: E 2  
*Air transport*  
 PAX: 851    max. weight PAX: 1 L  
 CAO: 855    max. weight CAO: 30 L  
*Maritime transport*  
 EmS: F-A, S-B    Storage category: B

- 14.5 Environmental hazards**  
none, contains only small quantities of hazardous substances
- 14.6 Special precautions for user**  
not necessary



# Safety Data Sheet

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

REF: 91865

NANOCOLOR Nitrate

Page: 10/11

Printing date: 01.10.2019

Date of issue: 20.05.2019

## 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

## SECTION 15: Regulatory information

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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013  
 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC  
 TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011  
 MN Leaflet/User manual, also see [www.mn-net.com](http://www.mn-net.com)  
 Look for your country-specific regulations.

### 15.2 Chemical safety assessment

not necessary for these small amounts ---

## SECTION 16: Other information

### 16.1 List of H and P phrases

#### 16.1.1 List of relevant H phrases

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

#### 16.1.2 List of relevant P phrases

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260D	Do not breathe vapours.
P260sh	Do not breathe dust/vapours.
P264W	Wash with water thoroughly after handling.
P280sh	Wear protective gloves/eye protection.
P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
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.
P330	Rinse mouth.
P390	Absorb spillage to prevent material damage.

### 16.2 Training advice

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.

### 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 ArbSchG)!

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 Further information

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### 16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS

Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress

Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated 03/2018

SUVA .CH, Limits in air at work 2009, revised on 01.2009

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NANOCOLOR Nitrate

Page: 11/11

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KÜHN, BIRETT      Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

## Revisions/Updates

*Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU*