

Safety Data Sheet

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

REF: 91863

NANOCOLOR Nitrate Z

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Printing date: 15.11.2021

Date of issue: 14.07.2020

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

1.1 Product identifier

REF 91863
Product name NANOCOLOR Nitrate Z

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.

2 x 100 mL Nitrate Z R1
2 x 15 g Nitrate Z 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
Valenciennner Str. 11, 52355 Düren, 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



GHS05 GHS07

Signal word DANGER

Hazard identification	Hazard classes/categories
H314	Skin Corr. 1B
H315	Skin Irrit. 2
H317	Skin Sens. 1
H319	Eye Irrit. 2
H412	Aquatic Chronic 3

2.1 Classification of the substance or mixture

100 mL Nitrate Z R1



GHS05

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Signal word

DANGER

Hazard identification

Hazard classes/categories

H314

Skin Corr. 1B

15 g Nitrate Z R2



GHS07

Signal word

WARNING

Hazard identification

Hazard classes/categories

H315

Skin Irrit. 2

H317

Skin Sens. 1

H319

Eye Irrit. 2

H412

Aquatic Chronic 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** 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.

100 mL Nitrate Z R1



GHS05

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.

15 g Nitrate Z R2



GHS07

Signal word: WARNING

H317, H412

May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

P261sh, P280sh

Avoid breathing dust/vapours. Wear protective gloves/eye protection.

2.3 Other hazards

Possible hazards from physicochemical properties

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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. ---

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 skin contact, impairments of health when ingested in small quantities. May cause sensitization by skin contact, also in repeated contact of small amounts. -

Information pertaining to particular risks to the environment

Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.

PBT: not applicable

vPvB: not applicable

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

100 mL Nitrate Z R1

Chemical: 1-naphthylamine

CAS No.: 134-32-7

Classification: No criteria for classification or naming of chemical not required.

Formula: C₁₀ H₉ N

Pseudonym: 1-naphthalenamine

TSCA Inventory: listed

REACH Reg. No.: as intermediate

EC No.: 205-138-7

Indice No.:

612-020-00-2

RTECS: QM1400000

MFCD:

00004016

KE No.: KE-25544

Concentration: < 0.10 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: acetic acid

CAS No.: 64-19-7

Classification: H226, Flam. Liq. 3, H314, Skin Corr. 1B

Formula: C₂ H₄ O₂ ; CH₃ -COOH

TSCA Inventory: listed

REACH Reg. No.: 01-2119475328-30-xxxx

EC No.: 200-580-7

Indice No.:

607-002-00-6

RTECS: AF1225000

MFCD:

00036152

KE No.: KE-00013

Concentration: 25 - <50 %

acc. CLP (GHS): H314, Skin Corr. 1B

15 g Nitrate Z R2

Chemical: sulfanilic acid

CAS No.: 121-57-3

Classification: H315, Skin Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2

Formula: C₆ H₇ NO₃ S

Pseudonym: 4-aminobenzene sulfonic acid

TSCA Inventory: listed

REACH Reg. No.: 01-2119541820-45-xxxx

EC No.: 204-482-5

Indice No.:

612-014-00-X

RTECS: WP3895500

MFCD:

00007886

KE No.: KE-01192

Concentration: 80 - <100 %

acc. CLP (GHS): H315, Skin Irrit. 2, H317, Skin Sens. 1, H319, Eye Irrit. 2

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Chemical:	zinc powder (stabilized)	CAS No.:	7440-66-6
Classification:	H410, Aquatic Chronic 1		
Formula:	Zn		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119467174-37-xxxx		
EC No.:	231-175-3	Indice No.:	030-002-01-9
RTECS:	ZG8600000		
KE No.:	KE-35518		
Concentration:	0.25 - <2.5 %		
acc. CLP (GHS):	H412, Aquatic Chronic 3		

3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

List of H and P phrases: see section 16.1

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

May cause sensitization by skin contact, also in repeated contact of small amounts. ---

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 DISTRESS ensure that the patient inhales oxygen. Inform patient respectively further measures and the possibility of long-term damages. ---

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

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.

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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

not necessary, contains only small amounts of these substances

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): 8B

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 Z R1

Chemical: 1-naphthylamine

CAS No.: 134-32-7

TRGS 900 (DE): 0,17 mL/m³ / 1 E mg/m³

E/e respirable

Short-term exposure factor: 4 (II), H

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

NIOSH: Occupational Carcinogen List Yes

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: 29 CFR 1910.1004 (1986): carcinogen

Chemical: acetic acid

CAS No.: 64-19-7

DNEL: [loc, inh] 25 mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 3.058 mg/L

PNEC = Predicted No Effect Concentration

EU value: [TWA] 25 / [STEL] 50 mg/m³

TRGS 900 (DE): 10 mL/m³ / 25 mg/m³

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: 10 ppm / 25 mg/m³

NIOSH: [TWA] 10 ppm / 25 mg/m³; [STEL] 15 ppm / 37 mg/m³

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 10 ppm / 25 mg/m³

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15 g Nitrate Z R2

Chemical: *sulfanilic acid*

CAS No.: 121-57-3

DNEL: [inh] 1,3 mg/m³

DNEL = Derived No-Effect Level (for workers)

TRGS 900 (DE): AGW -
E/e respirable

NIOSH: not listed

[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

Chemical: *zinc powder (stabilized)*

CAS No.: 7440-66-6

DNEL: 1_{inh} mg/m³

DNEL = Derived No-Effect Level (for workers)

TRGS 900 (DE): 0.1A / 2E mg/m³
E/e respirable

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 Z R1

Appearance: liquid

Colour: rose

Odor: acetic

pH:

2-3

Specific gravity:

1,03 g/cm³

Solubility in water:

0-100 %

15 g Nitrate Z R2

Appearance: powder (solid)

Colour: colourless

Odor: odorless

pH:

2

Solubility in water:

1 %

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

SECTION 10: Stability and reactivity

10.1 Reactivity

no further data available.

10.2 Chemical stability

No known instability.

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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 Z R1

Chemical:	<i>1-naphthylamine</i>	CAS No.:	134-32-7
TSCA Inventory:	listed	California Proposition 65 List:	listed cancer
Target Organs:	Carcinogen		
Australia NICNAS:	not listed	Canada CEPA 1999:	DSL yes
Japan CSCL/PRTR:	not listed, Japan PDSCL:	not listed	
Japan ISHL:	listed $\geq 1,0\%$ / $\geq 1,0\%$, Article 56	(Permission required)	
South Korea TCCA:	not listed		
Korea Exist.Chem.Inventory:	KE-25544		
LD50 _{orl rat} :	680 mg/kg		

Chemical:	<i>acetic acid</i>	CAS No.:	64-19-7
TSCA Inventory:	listed	California Proposition 65 List:	not listed
Exposure Routes:	inhalation, skin and/or eye contact		
Target Organs:	Eyes, skin, respiratory system, teeth		
Symptoms:	irritation eyes, skin, nose, throat; eye, skin burns; skin sensitization; dental erosion; black skin, hyperkeratosis; conjunctivitis, lacrimation (di		
Australia NICNAS:	not listed	Canada CEPA 1999:	DSL Yes
Japan CSCL/PRTR:	not listed, Japan PDSCL:	not listed	
Japan ISHL:	listed $\geq 1,0\%$ / $\geq 1,0\%$, Article 57-2	(SDS required)	
South Korea TCCA:	not listed		
Korea Exist.Chem.Inventory:	KE-00013		
LD50 _{orl rat} :	3310 mg/kg		
LC50 _{inh rat} :	[4h] 8.5-12,7 mg/L		
LD50 _{drm rbt} :	1060 mg/kg		
LD50 _{oral mouse} :	4960 mg/kg		

15 g Nitrate Z R2

Chemical:	<i>sulfanilic acid</i>	CAS No.:	121-57-3
TSCA Inventory:	listed	California Proposition 65 List:	not listed
Australia NICNAS:	not listed	Canada CEPA 1999:	DSL Yes
Japan CSCL/PRTR:	not listed, Japan PDSCL:	not listed	
Japan ISHL:	not listed		
South Korea TCCA:	not listed		
Korea Exist.Chem.Inventory:	KE-01192		
LD50 _{orl rat} :	12.3 g/kg		
Acute Effects:	Cause after skin contact, impairments of health when ingested in small quantities. May cause sensitization by skin contact, also in repeated contact of small amounts.		

Chemical:	<i>zinc powder (stabilized)</i>	CAS No.:	7440-66-6
TSCA Inventory:	listed		
Korea Exist.Chem.Inventory:	KE-35518		
LD50 _{orl rat} :	>2000 mg/kg		
LC _{LoWinh hmn} :	12450min mg/m ³		
LC50 _{ihl rat} :	>5.4 _{4h} mg/m ³		

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SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

100 mL Nitrate Z R1

Chemical: *1-naphthylamine*
 Bio Toxicity: 3/4.8-5.2/<4.0
 Water hazard class (DE): 2 WGK No.: 0822
 Dispersion coefficient_(octanol-water): 2.1
 Storage class (VCI): 6.1 C

CAS No.: 134-32-7

Chemical: *acetic acid*
 Avoid contact of substance/mixture to environment.
 PNEC_(fresh water): 3.058 mg/L
 PNEC = Predicted No Effect Concentration
 LC50_{fish/96h}: [4d] 301-1000 mg/L
 EC50_{daphnia/48h}: 301-1000 mg/L
 IC50_{scenedesmus quadricauda/72h}: 301-1000 mg/L
 Water hazard class (DE): 1 WGK No.: 0093
 Dispersion coefficient_(octanol-water): -0,17
 Storage class (VCI): 8 B

CAS No.: 64-19-7

15 g Nitrate Z R2

Chemical: *sulfanilic acid*
 Water hazard class (DE): 1 WGK No.: VwVwS
 Storage class (VCI): 12-13

CAS No.: 121-57-3

Chemical: *zinc powder (stabilized)*
 Harmful to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment.
 Environmental hazards must not be labelled with P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).
 LC50_{fish/96h}: 2.01 mg/L
 EC50_{daphnia/48h}: 0.131 mg/L
 EC50_{pseudokirchneriella subcapitata/72h}: IC50: 0.713 mg/L
 Water hazard class (DE): 2 WGK No.: 7325
 Storage class (VCI): 13

CAS No.: 7440-66-6

12.2 Persistence and degradability

not necessary

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.

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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: 3265 **14.2 UN proper shipping name:** Corrosive liquid, acidic, organic, n.o.s. (acetic acid mixture)
14.3 Class: 8 **14.4 Packing group:** III
Road transport
Classification code: C3
Limited Quantity: 5 L Tunnel restriction code: E
Excepted Quantity: E 1
Air transport
PAX: 852 max. weight PAX: 5 L
CAO: 856 max. weight CAO: 60 L
Maritime transport
EmS: F-A, S-B Storage category: A

14.5 Environmental hazards

none, contains only small quantities of hazardous substances, contains only small amounts of these 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

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
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

H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

16.1.2 List of relevant P phrases

P260sh Do not breathe dust/vapours.
P261sh Avoid breathing dust/vapours.
P273 Avoid release to the environment.
P280sh Wear protective gloves/eye protection.

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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.

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 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 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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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, 4th adaptation of CLP regulation to technical and scientific progress

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

Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress

Regulation 849/2021/EU, 4th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated 03/2019

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

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011

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

Revisions/Updates

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