

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

NANOCOLOR Ammonium Page: 1/10

Date of issue: 22.04.2020 Printing date: 02.06.2020

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

1.1 **Product identifier**

REF 91805

Product name NANOCOLOR Ammonium

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 100 mL Ammonium R1

4 x 25 NANOFIX Ammonium-2 (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







GHS05

GHS07

GHS08

DANGER Signal word

Hazard identification	Hazard classes/categories
H290	Met. Corr. 1
H302	Acute Tox. 4 oral
H314	Skin Corr. 1B
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H361f	Repr. 2

2.1 Classification of the substance or mixture

100 mL Ammonium R1





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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272

Version: M V 4.12.0 E-mail: info@mn-net.com

E-mail: sales-ch@mn-net.com

E-mail: sales-fr@mn-net.com

E-mail: sales-us@mn-net.com



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> Signal word **DANGER**

Hazard identification	Hazard classes/categories
H290	Met. Corr. 1
H314	Skin Corr. 1B
H361f	Repr. 2

25 NANOFIX Ammonium-2 (R2)



Signal word WARNING

Hazard identification	Hazard classes/categories
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2

2.2 Label elements

According CLP directive inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I

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).

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).

The corrosive hazard should be minimized to irritant, because of buffer chemicals inside.

100 mL Ammonium R1





GHS05 GHS08 Signal word: DANGER

H314, H361f

Causes severe skin burns and eye damage. Suspected of damaging fertility.

P201, P260sh, P280sh, P303+361+353, P305+351+338, P310

Obtain special instructions before use. 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.

25 NANOFIX Ammonium-2 (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. 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). ---

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272

Version: M V 4.12.0 E-mail: info@mn-net.com

E-mail: sales-ch@mn-net.com

E-mail: sales-fr@mn-net.com

E-mail: sales-us@mn-net.com



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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. Suspected of damaging fertility. -

Information pertaining to particular risks to the environment

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 Ammonium R1

Chemical: sodium hydroxide solution CAS No.: 1310-73-2

Classification: H290, Met. Corr. 1, H314, Skin Corr. 1B

Formula: NaOH•H2O soda lye Pseudonym:

TSCA Inventory: listed

REACH Reg. No.: 01-2119457892-27-xxxx

EC No.: 215-185-5 Indice No.: 011-002-00-6

RTECS: WB4900000 KE-31487 KE No.: Concentration: 2 - < 5 %

acc. CLP (GHS): H290, Met. Corr. 1, H314, Skin Corr. 1B

Chemical: CAS No.: 54-21-7 sodium salicylate Classification: H302, Acute Tox. 4 oral, H319, Eye Irrit. 2, H361, Repr. 2, H361d, Repr. 2

Formula: C₇ H₅ NaO₃

TSCA Inventory: listed REACH Reg. No.: 01-2119918289-28-xxxx

EC No.: 200-198-0 VO5075000 RTECS: KE-20384 KE No.: Concentration: 1 - <10 %

acc. CLP (GHS): H361, Repr. 2, H361f, Repr. 2

Chemical: CAS No.: 6132-04-3 tri-sodium citrate

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

Formula: C₆ H₅ Na₃ O₇ •2H₂ O listed (CAS 68-04-2) TSCA Inventory: REACH Reg. No.: 01-2119457027-40-xxxx

EC No.: 200-675-3 RTECS: GE8300000 KE-20843 KE No.: Concentration: 10 - < 20 %

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

25 NANOFIX Ammonium-2 (R2)

Chemical: sodium nitroprusside CAS No : 13755-38-9

Classification: H301, Acute Tox. 3 oral Formula: Na₂ [Fe(CN)₅ NO]₂ •2 H₂ O disodium pentacyanonitrosylferrate Pseudonym:

TSCA Inventory: listed (CAS 14402-89-2) EC No.: 238-373-9

RTECS: LJ89250000 KE No.: not listed Concentration: 15 - <33 %

acc. CLP (GHS): H302, Acute Tox. 4 oral

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MACHEREY-NAGE (MN)

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272 Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



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Chemical: dichloroisocyanuric acid, Na salt CAS No.: 2893-78-9

Classification: H272, Ox. Liq. 2, H302, Acute Tox. 4 oral, H319, Eye Irrit. 2, H335, STOT SE 3, H410, Aquatic

Chronic 1, EUH031, 031 not defined Formula: C₃ Cl₂ N₃ NaO₃

Pseudonym: troclosene sodium, sodium 3,5-dichloro-2,4,6-trioxo-1,3,5-triazinan-1-ide

TSCA Inventory: listed

REACH Reg. No.: 01-2119489371-33-xxxx

EC No.: 220-767-7 Indice No.: 613-030-01-7 RTECS: XZ1900000 MFCD: 00006036

KE No.: KE-10215, >25% Toxic 2014-1-688

Concentration: 10 - <20 %

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

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

CMR Effects: Suspected of damaging fertility. ---

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. ---

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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MACHEREY-NAGEL GmbH & Co. KG \cdot Neumann-Neander-Str. 6–8 \cdot 52355 Düren \cdot Germany

DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 +41 62 388 55 05 +33 388 51 76 88 +1 484 821 1272 Fax: Fax: Fax:



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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

6.2 **Environmental precautions**

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): 8B Water hazard class (DE) 3

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 Ammonium R1

Chemical: sodium hydroxide solution CAS No.: 1310-73-2

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

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

SUVA(CH) MAK value: 2 e mg/m³ NIOSH: 2 mg/m^3

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

OSHA: [TWA] 2 mg/m³

Chemical: CAS No.: 54-21-7 sodium salicylate

1,32 mg/m³ DNEL DNEL = Derived No-Effect Level (for workers) PNEC_(fresh water): 0,0413 mg/L PNEC = Predicted No Effected Concentration

CAS No.: 6132-04-3 Chemical: tri-sodium citrate

25 NANOFIX Ammonium-2 (R2)

CAS No.: 13755-38-9 Chemical: sodium nitroprusside

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MACHEREY-NAGE (MN)

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

DE/international: CH: FR: US:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax: Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



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> Chemical: CAS No.: 2893-78-9 dichloroisocyanuric acid. Na salt

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

not listed

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

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 Ammonium R1

Colour: colourless Appearance: liquid Odor: odorless

12-13 pH: Solubility in water: 0-100 %

25 NANOFIX Ammonium-2 (R2)

Appearance: powder (solid) Colour: rose Odor: chloric

5-7

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.

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.

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MACHEREY-NAGE (MN)

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax: Version: M V 4.12.0 E-mail: info@mn-net.com E-mail: sales-ch@mn-net.com E-mail: sales-fr@mn-net.com E-mail: sales-us@mn-net.com



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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 Ammonium R1

Chemical: sodium 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, respiratory system

Symptoms: irritation eyes, skin, mucous membrane; pneumonitis; eye, skin burns; temporary loss of hair

Australia NICNAS: Canada CEPA 1999: DSL Yes

not listed. Japan PDSCL: not listed Japan CSCL/PRTR:

Japan ISHL listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-31487

[40%] 1250 / [<25%] >2000 mg/kg LD50_{orl rat}:

LD50_{orl mus}: 40 mg/kg

Chemical: sodium salicylate CAS No.: 54-21-7

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-20384 LD50_{orl rat}: 1000 ma/ka LC Loworl hmn: 700 mg/kg LD50_{drm rat}: 2000 mg/kg

Carcinogenic Effects: Suspected of damaging fertility.

CAS No : 6132-04-3 Chemical: tri-sodium citrate

listed (CAS 68-04-2) TSCA Inventory: Korea Exist.Chem.Inventory: KE-20843 LD50_{orl rat}: >8000 mg/kg

25 NANOFIX Ammonium-2 (R2)

Chemical: sodium nitroprusside CAS No.: 13755-38-9

TSCA Inventory: listed (CAS 14402-89-2)

Korea Exist.Chem.Inventory: not listed LD50_{orl rat}: 99 mg/kg 20 mg/kg LC Loworl rat:

Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

Chemical: dichloroisocyanuric acid, Na salt CAS No.: 2893-78-9

TSCA Inventory: 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-10215, >25% Toxic 2014-1-688

LD50_{orl rat}: 550-1600 mg/kg LC Loworl hmn: 3570 mg/kg LD50_{drm rbt}: >5000 ma/ka

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

100 mL Ammonium R1

CAS No.: 1310-73-2 sodium hydroxide solution Chemical:

Avoid contact of substance/mixture to environment. LC50_{leuciscus idus/96h}: 35-189 mg/L 45.4 mg/L LC50fish/96h: EC50_{daphnia/48h}: >100 mg/L

Water hazard class (DE): WGK No.: 142

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DE/international: CH: FR: US:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272



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> Storage class (VCI): 8 B

Chemical: sodium salicylate CAS No.: 54-21-7

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 0,0413 mg/L

Water hazard class (DE): 12-13 Storage class (VCI):

Chemical: tri-sodium citrate CAS No.: 6132-04-3

18-32 g/L LC50_{fish/96h}: EC50_{daphnia/48h}: 5.6-10 g/L EC50_{chlorella vulgaris/5d}: >18-32 g/L

EC10pseudomonas putita/16h: EC50_{ps. fluorescens/8h}: >1.8-3.2 g/L

Water hazard class (DE):

Storage class (VCI): 12-13

25 NANOFIX Ammonium-2 (R2)

Chemical: sodium nitroprusside CAS No.: 13755-38-9

Water hazard class (DE): 3 6.1 B Storage class (VCI):

dichloroisocyanuric acid, Na salt CAS No.: 2893-78-9

Water hazard class (DE): Storage class (VCI): 13

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

SECTION 14: Transport information

14.1. UN number: 3316 14.2. UN proper shipping name: Chemical Kit

14.4. Packing group: 14.3. Class:

Road transport

Classification code: Tunnel restriction code: Ε

acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation Limited Quantity:

Air transport

PAX: 960 max. weight PAX: 10 KG CAO: 960 max. weight CAO: 10 KG

Maritime transport

F-A, S-P Storage category:

Or use Alternative declaration for transportation:

3266 14.1 UN number: 14.2 UN proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide solution)

14.3 Class: 14.4 Packing group:

Road transport Classification code:

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MACHEREY-NAGE (MN)

MACHEREY-NAGEL GmbH & Co. KG · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany

DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax:

Version: M V 4.12.0 E-mail: info@mn-net.com

E-mail: sales-ch@mn-net.com

E-mail: sales-fr@mn-net.com

E-mail: sales-us@mn-net.com



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Limited Quantity: 1 L Tunnel restriction code: E

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

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

H290 May be corrosive to metals. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H361f Suspected of damaging fertility.

16.1.2 List of relevant P phrases

P201 Obtain special instructions before use.

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 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.

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US:



MACHEREY-NAGEL GmbH & Co. KG \cdot Neumann-Neander-Str. 6–8 \cdot 52355 Düren \cdot Germany

DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 +1 484 821 1272 Fax:



Safety Data Sheet

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

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 Printing date: 02.06.2020
 Date of issue: 22.04.2020

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, 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

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

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work

TRGS 905, German engineering rules governing carcinogens and mutagens, updated 03/18

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

Revisions/Updates

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

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DE/international: CH: FR:

Tel.: +49 24 21 969-0 Tel.: +41 62 388 55 00 Tel.: +33 388 68 22 68 Tel.: +1 484 821 0984 Fax: +49 24 21 969-199 Fax: +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +1 484 821 1272