

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

VISOCOLOR ECO Ammonium 15 Page: 1/12

Printing date: 12.05.2021 Date of issue: 13.01.2021

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

#### 1.1 **Product identifier**

REF 931010

Product name VISOCOLOR ECO Ammonium 15

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 30 mL NH<sub>4</sub> -1 1 x 2,5 g NH<sub>4</sub> -2 1 x 10 mL NH<sub>4</sub> -3

#### 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

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

**DANGER** Signal word

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H290	Met. Corr. 1
H314	Skin Corr. 1A
H412	Aquatic Chronic 3

#### Classification of the substance or mixture 2.1

30 mL NH<sub>4</sub> -1



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> Signal word **DANGER**

Hazard identification Hazard classes/categories H290 Met. Corr. 1 H314 Skin Corr. 1A

2,5 g NH<sub>4</sub> -2

Do not need labelling as hazardous

Signal word

No hazard class

10 mL NH<sub>4</sub> -3





Signal word DANGER

Hazard identification Hazard classes/categories H226 Flam. Liq. 3 H314 Skin Corr. 1B H412 Aquatic Chronic 3

#### 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 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 solutionsdo 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).

30 mL NH<sub>4</sub> -1



GHS05

Signal word: DANGER

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.

## 2,5 g NH<sub>4</sub> -2

Do not need labelling as hazardous Signal word: -

10 mL NH<sub>4</sub> -3





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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

US:



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Signal word: DANGER

H314, H412

Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.

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. H290 "May be corrosive to metals." has only relevance for higher concentrations and larger amounts. The labelling GHS05 would be creating an "OVERLABELLING" (see GHS Directive 1272/2008/EC Annex I, chapter 1.5.2.1.3., until 125 mL no labelling necessary). ---

### Information pertaining to particular risks to human and possible symptoms

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

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

30 mL NH<sub>4</sub> -1

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

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

Formula: NaOH•H<sub>2</sub> O
Pseudonym: soda lye
TSCA Inventory: listed

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

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

RTECS: WB4900000 KE No.: KE-31487 Concentration: 5 - <10 %

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

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

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

Formula: C<sub>6</sub> H<sub>5</sub> Na<sub>3</sub> O<sub>7</sub> •2H<sub>2</sub> O
TSCA Inventory: listed (CAS 68-04-2)
REACH Reg. No.: 01-2119457027-40-xxxx

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

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

2,5 g NH<sub>4</sub> -2

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

H272, Ox. Liq. 2, H302, Acute Tox. 4 oral, H319, Eye Irrit. 2, H335, STOT SE 3, H410, Aquatic Classification: Chronic 1, EUH031, 031 not defined

Formula: C<sub>3</sub> Cl<sub>2</sub> N<sub>3</sub> NaO<sub>3</sub>

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

TSCA Inventory:

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

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

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

Concentration: 3 - <10 %

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

CAS No.: 7647-14-5 Chemical: sodium chloride

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

Formula: NaCl Pseudonym: salt TSCA Inventory: listed

REACH Reg. No.: exempt, Annex V EC No.: 231-598-3 RTECS: VZ4725000 KE No.: KE-31387 Concentration: 80 - <100 %

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

10 mL NH<sub>4</sub> -3

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

Classification: H301, Acute Tox. 3 oral Na<sub>2</sub> [Fe(CN)<sub>5</sub> NO]<sub>2</sub> •2 H<sub>2</sub> O Formula: Pseudonym: disodium pentacyanonitrosylferrate

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

EC No.: 238-373-9 RTECS: LJ89250000 KE No.: not listed Concentration: 1 - < 5 %

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

Chemical: ethanol CAS No.: 64-17-5

(denatured with 1%IPA/1%MEK, acc.2016/1867/EU)

Classification: H225, Flam. Liq. 2 Formula: C<sub>2</sub> H<sub>6</sub> O; C<sub>2</sub> H<sub>5</sub> OH

ethyl alcohol, methylated spirit Pseudonym:

TSCA Inventory: listed

REACH Reg. No.: 01-2119457610-43-xxxx

EC No.: 200-578-6 Indice No.: 603-002-00-5 KQ6300000 RTECS: MFCD: 00003568

KF No . KF-13217 Concentration: 35 - < 55 % acc. CLP (GHS): H226, Flam. Liq. 3

Chemical: CAS No.: 89-83-8

Classification: H302, Acute Tox. 4 oral, H314, Skin Corr. 1B, H411, Aquatic Chronic 2

Formula: C<sub>10</sub> H<sub>14</sub> O

Pseudonym: 5-methyl-2-(1-methylethyl)-phenol

TSCA Inventory: listed

REACH Reg. No.: 01-2119511177-46-xxxx

EC No.: 201-944-8 604-032-00-1 Indice No.: RTFCS XP2275000 MECD: 00002309

KF-24420 KE No.: Concentration: 5 - < 10 %

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

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

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



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### **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

---

## 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

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

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.

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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 +41 62 388 55 05 Fax: +33 388 51 76 88 Fax: +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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#### 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): 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

30 mL NH<sub>4</sub> -1

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

[inh] 1 mg/m³
DNEL = Derived No-Effect Level (for workers) DNFI · TRGS 900 (DE): 2 mg/m<sup>3</sup>

E/e respirable 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/m<sup>3</sup> NIOSH: 2 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] 2 mg/m<sup>3</sup>

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

2,5 g NH<sub>4</sub> -2

CAS No. 2893-78-9 Chemical: dichloroisocvanuric 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

OSHA: not listed

Chemical: sodium chloride CAS No.: 7647-14-5

10 mL NH<sub>4</sub> -3

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

Chemical: CAS No.: 64-17-5

DNEL: [derm] 343 mg/kg; [inh] 950 mg/m<sup>3</sup> DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 0.96 mg/L PNEC = Predicted No Effected Concentration 0.96 mg/L

TRGS 900 (DE): 200 mL/m3 / 380 mg/m3

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

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

SUVA(CH) MAK value: 500 ppm / 960 mg/m<sup>3</sup>

NIOSH:

E: [TWA] 1000 ppm / 1900 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] 1000 ppm / 1900 mg/m<sup>3</sup>

Chemical: CAS No.: 89-83-8 thymol

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#### 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

30 mL NH<sub>4</sub> -1

Appearance: liquid Colour: colourless Odor: odorless

pH: 11,5-12,5

2,5 g NH<sub>4</sub> -2

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

10 mL NH<sub>4</sub> -3

Appearance: liquid Odor: organic Colour: rose

6-8 pH: 23 °C Flash point: Specific gravity: 0,9 g/cm<sup>3</sup>

#### 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. ---

#### 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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# **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.

### 30 mL NH<sub>4</sub> -1

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<sub>orl rat</sub>:

LD50<sub>drm rbt</sub>: not applicable LD50<sub>orl mus</sub>: 40 mg/kg

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

listed (CAS 68-04-2) TSCA Inventory: Korea Exist.Chem.Inventory: KE-20843 LD50<sub>orl rat</sub>: >8000 ma/ka

## 2,5 g NH<sub>4</sub> -2

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

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-10215, >25% Toxic 2014-1-688

LD50<sub>orl rat</sub>: 550-1600 mg/kg LC\_Loworl hmn: 3570 mg/kg LD50<sub>drm rbt</sub>: >5000 mg/kg

Chemical: sodium chloride CAS No.: 7647-14-5

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-31387 LD50<sub>orl rat</sub>: 3000 mg/kg LD50<sub>drm rbt</sub>: 10 g/kg

### 10 mL NH<sub>4</sub> -3

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

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

Korea Exist.Chem.Inventory: not listed LD50<sub>orl rat</sub>: 99 mg/kg LC\_Loworl rat: 20 mg/kg

Chemical: ethanol CAS No.: 64-17-5

TSCA Inventory: California Proposition 65 List: not listed

ACGIH:

Exposure Routes: inhalation, ingestion, skin and/or eye contact

Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system

Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;

liver damage; anemia; reproductive, teratogenic

Australia NICNAS: not listed Canada CEPA 1999: DSL yes

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

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

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-13217 LD50<sub>orl rat</sub>: 6200 mg/kg

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> $LC\_Low_{ihl\ gpg}$  : 21.9 g/m<sup>3</sup> 1400 mg/kg LC\_Loworl hmn: LC50<sub>ihl mouse</sub>: [4h] 39 g/m<sup>3</sup> LC50<sub>ihl rat</sub>: [10h] 20 g/m<sup>3</sup> LD50<sub>drm rbt</sub>: 20 000 mg/kg LD50<sub>oral mouse</sub>: 3450 mg/kg TRGS 905 (DE): K5, M5, R<sub>F</sub> C

CAS No.: 89-83-8 Chemical: thymol

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-24420 LD50<sub>orl rat</sub>: 980 mg/kg LD50<sub>drm rat</sub>: > 2000 mg/kg

## **SECTION 12: Ecological information**

#### 12.1 **Toxicity**

Following information is valid for pure substances.

30 mL NH<sub>4</sub> -1

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

Avoid contact of substance/mixture to environment. 35-189 mg/L  $LC50_{leuciscus\ idus/96h}$  : 45.4 mg/L LC50<sub>fish/96h</sub>: EC50<sub>daphnia/48h</sub>: >100 mg/L

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

Storage class (VCI):

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

18-32 g/L LC50<sub>fish/96h</sub>: EC50<sub>daphnia/48h</sub>: 5.6-10 g/L EC50<sub>chlorella vulgaris/5d</sub>: >18-32 g/L

EC50<sub>ps. fluorescens/8h</sub>: >1.8-3.2 g/L

EC10<sub>pseudomonas</sub> putita/16h : Water hazard class (DE): Storage class (VCI): 12-13

2,5 g NH<sub>4</sub> -2

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

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

Chemical: CAS No.: 7647-14-5 sodium chloride

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

10 mL NH<sub>4</sub> -3

CAS No.: 13755-38-9 sodium nitroprusside

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

ethanol Chemical: CAS No.: 64-17-5

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 0.96 mg/L

LC50<sub>daphnia magna/48h</sub>: >100 mg/L 13400 - 15100 mg/L LC50pimephales promelas/96h: LC50<sub>leuciscus idus/96h</sub> [48h] 8140 mg/L

LC50<sub>fish/96h</sub>: 13 g/L EC50<sub>daphnia/48h</sub>: 9.3-14.2 g/L [7d] 5000 mg/L IC50<sub>scenedesmus</sub> quadricauda/72h: [EC5] 6500 mg/L EC10pseudomonas putita/16h: WGK No.: 0096 Water hazard class (DE):

 $Dispersion\ coefficient_{(octanol-water)}:$ -0.31 Storage class (VCI):

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> CAS No.: 89-83-8 Chemical: thymol 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).

LC50pimephales promelas/96h: 3.2 mg/L EC50<sub>daphnia/48h</sub>: 3.2 mg/L

Water hazard class (DE): WGK No.: 1220 2

Storage class (VCI): 8 A

#### 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

## **SECTION 14: Transport information**

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

14.3. Class: 14.4. Packing group:

Road transport

Classification code: M11 Tunnel restriction code:

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

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

Maritime transport

F-A, S-P Storage category:

## Or use Alternative declaration for transportation:

UN No.: (see below) UN 1993 class 3 III, **Excepted Quantities** (≤30 mL/∑≤1 L) = ADR/ IATA E1

class 8 II, Excepted Quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2

1993

14.1 UN number: 14.2 UN proper shipping name: Flammable liquid, n.o.s. (ethanol mixture)

14.3 Class: 14.4 Packing group: III

Road transport Classification code: F1

Limited Quantity: 5 L Tunnel restriction code: **Excepted Quantity:** Special instructions: 640E

Air transport PAX: 355 max. weight PAX: 60 I CAO: 366 max. weight CAO: 220 L

Maritime transport

F-E, S-E Storage category:

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

14.3 Class: 14.4 Packing group:

Road transport Classification code: C5

Limited Quantity: 1 L Tunnel restriction code:

**Excepted Quantity:** E 2

Air transport

851 PAX: max. weight PAX: 1 L

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US:



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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 +41 62 388 55 05 +33 388 51 76 88 +1 484 821 1272 Fax: Fax: 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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855 30 I CAO. max. weight CAO:

Maritime transport

EmS: F-A, S-B Storage category: В

#### 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,

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

H226 Flammable liquid and vapour. H290 May be corrosive to metals.

Causes severe skin burns and eye damage. H314 H412 Harmful to aquatic life with long lasting effects.

#### 16.1.2 List of relevant P phrases

Keep away from heat/sparks/open flames/hot surfaces. No smoking. P210

P260sh Do not breathe dust/vapours. P273 Avoid release to the environment. 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 rinsina. Immediately call a POISON CENTER/doctor.

P310 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.

#### 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

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

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

### Revisions/Updates

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

2017-08 Adaption of new ethanol denaturation 2016/1867/EU

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