

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

NANOCOLOR Anionic surfactants 4 Page: 1/11

Date of issue: 05.09.2018 Printing date: 01.10.2019

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

1.1 **Product identifier**

REF 985032

Product name NANOCOLOR Anionic surfactants 4

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.

20 x 6 mL Anionic Surfactants 4 (R0) 1 x 11 mL Anionic Surfactants 4 (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



GHS06



GHS07



DANGER Signal word

Hazard identification	Hazard classes/categories	
H226	Flam. Lig. 3	
H302	Acute Tox. 4 oral	
H312	Acute Tox. 4 derm.	
H315	Skin Irrit. 2	
H319	Eye Irrit. 2	
H331	Acute Tox. 3 inh.	
H332	Acute Tox. 4 inh.	
H336	STOT SE 3	
H351	Carc. 2	
H361	Repr. 2	
H371	STOT SE 2	
H373	STOT RE 2	

2.1 Classification of the substance or mixture

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6 mL Anionic Surfactants 4 (R0)









Signal word	DANGER

Hazard identification	Hazard classes/categories
H226	Flam. Lig. 3
H302	Acute Tox. 4 oral
H312	Acute Tox. 4 derm.
H315	Skin Irrit. 2
H319	Eye Irrit. 2
H331	Acute Tox. 3 inh.
H332	Acute Tox. 4 inh.
H336	STOT SE 3
H351	Carc. 2
H361	Repr. 2
H371	STOT SE 2
H373	STOT RE 2

11 mL Anionic Surfactants 4 (R2)

Do not need labelling as hazardous

Signal word

No hazard class

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 - 1.5.1.2). Inner packages up to 10 mL need max. 2 symbols (Annex I - 1.5.2.4.1 / 2).

Harmful chemicals/mixtures with signal word: WARNING and highly flammable chemicals/mixtures must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

6 mL Anionic Surfactants 4 (R0)









GHS02

GHS06

GHS07

GHS08

Signal word: DANGER

H331, H351, H361

Toxic if inhaled. Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

P261sh, P280sh, P311, P405

Avoid breathing dust/vapours. Wear protective gloves/eye protection. Call a POISON CENTER/doctor. Store locked up.

11 mL Anionic Surfactants 4 (R2)

Do not need labelling as hazardous Signal word: -

2.3 Other hazards

Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties. ---

Information pertaining to particular risks to human and possible symptoms

Cause severe after inhalation of vapours, impairments of health or can lead to death even when only ingested in small quantities. Cause after oral intake, inhalation of vapours/dust, impairments of health when ingested in small quantities. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. The labelling with GHS06 would indicate acute toxicity hazard which is not given by the closed cuvette system. -

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Information pertaining to particular risks to the environment

PBT: not applicable vPvB: not applicable

Other hazards

SECTION 3: Composition/information on ingredients

Substances or 3.2 Mixtures 3.1

6 mL Anionic Surfactants 4 (R0)

Chemical: methanol CAS No.: 67-56-1

H225, Flam. Liq. 2, H301, Acute Tox. 3 oral, H311, Acute Tox. 3 derm., H331, Acute Tox. 3 inh., Classification:

H370, STOT SE 1 Formula: CH₄ O, CH₃ OH

TSCA Inventory: listed

REACH Reg. No.: 01-2119433307-44-xxxx

EC No.: 200-659-6 Indice No.: 603-001-00-X PC1400000 00004595 RTFCS: MFCD:

KE No.: KE-23193, Toxic 97-1-80

Concentration: 3 - < 10 %

acc. CLP (GHS): H226, Flam. Liq. 3, H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H332, Acute Tox. 4 inh.,

H371, STÒT SÉ 2

CAS No.: 67-66-3 Chemical: chloroform

H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2, H331, Acute Tox. 3 inh., H336, STOT Classification:

SE 3, H351, Carc. 2, H361, Repr. 2, H373, STOT RE 2

CHCl₃ Formula:

Pseudonym: trichloromethane

TSCA Inventory: listed

01-2119486657-20-xxxx REACH Reg. No.:

EC No.: 200-663-8 Indice No.: 602-006-00-4 RTECS: FS9100000 00000826 MFCD:

KE No.: KE-34076, Toxic 97-1-281

95 - <100 % Concentration:

acc. CLP (GHS): H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2, H331, Acute Tox. 3 inh., H336, STOT

SE 3, H351, Carc. 2, H361, Repr. 2, H373, STOT RE 2

Chemical: CAS No.: 7732-18-5 water

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

 H_2O TSCA Inventory: listed REACH Reg. No.: exempt, Annex IV

EC No.: 231-791-2 RTECS: ZC0110000 KE-35400 KE No.: Concentration: 70 - <90 %

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

phosphate buffer solution CAS No .: -Chemical:

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

Formula: K/Na₁₋₃ H₂₋₀ PO₄ • x H₂ O

TSCA Inventory: all listed KE No .: listed 5 - < 20 % Concentration:

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

11 mL Anionic Surfactants 4 (R2)

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> Chemical: CAS No.: 61-73-4 methylene blue

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

Formula: C₁₆ H₁₈ CIN₃ S

Pseudonym: Basic Blue 9, phenothiazin-5-ium, 3,7-bis(dimethylamino)-, chloride (1:1)

TSCA Inventory: listed EC No.: 200-515-2

RTFCS SO5600000

KE-06942 KE No .:

Concentration: < 1,00 %

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

Chemical: sulfuric acid (diluted < 5 %) CAS No.: 7664-93-9d

MECD:

00012111

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

Formula: H₂ SO₄ •H₂ O listed

TSCA Inventory: REACH Reg. No.: 01-2119458838-20-xxxx

EC No.: 231-639-5 Indice No.: 016-020-00-8

RTFCS WS5600000 KE No .: KE-32570 Concentration: < 0,10 %

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

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. Take to a doctor, in a raised position if there are breathing difficulties.

4.1.1

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

After INHALATION of vapours 4.1.3

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. --

4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested. ---

4.2 Most important symptoms and effects, both acute and delayed

Carcinogenic Effects: Suspected of causing cancer. Suspected of damaging fertility or the unborn child. ---

4.3 Indication of any immediate medical attention and special treatment needed

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

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No, for listed product. Product package burns like paper or plastic.

5.4 Additional information

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). 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

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. Not for organic solvents (see section 13).

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas. Use a safety bottle when shaking test tubes.

7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage. Products containing also toxic substances should be kept locked up.

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

721 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage, and store in a well-ventilated place at max. 25 °C, away or preferably separate from substances with which a hazardous reaction could take place, so that they are not immediately accessible to outside parties. 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

6 mL Anionic Surfactants 4 (R0)

Chemical: methanol CAS No.: 67-56-1

[derm] 40 mg/kg bw/day; [inh] 260 mg/m³ DNEL: DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 20.8 mg/L PNEC = Predicted No Effected Concentration

[TWA] 200 ppm / 260 mg/m³ EU value: TRGS 900 (DE): 200 ppm / 270 mg/m³ E/e respirable

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

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

SUVA(CH) MAK value: 200 ppm/ 260 mg/m³ SUVA(CH) BAT value: [U/c,b] 30 mg/L TRGS 903 (DE): U/c,b 30 mg/L

B blood, U urine, a no limitation, b end of exposition or shift

[TWA, skin] 200 ppm / 260 mg/m³

NIOSH STEL:

NIOSH STEL: 250 ppm / 325 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] 200 ppm / 260 mg/m³

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> Chemical: chloroform CAS No.: 67-66-3

[derm] 0.94 mg/kg bw/day; [inh] 2.5 mg/m³ DNEL: DNEL = Derived No-Effect Level (for workers)

 $\begin{array}{ccc} PNEC_{(fresh\ water)}: & 0.146\ mg/L \\ PNEC = Predicted\ No\ Effected\ Concentration \end{array}$

0.5 ppm / 2.5 mg/m³ EU value: 0,5 mL/m³ / 2,5 mg/m³ TRGS 900 (DE): E/e respirable

Short-term exposure factor: 2 (II), H, X, Y

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

SUVA(CH) MAK value: 0,5 ppm / 2,5 mg/m³

NIOSH:

E. Ca ST 2 ppm / 9.78_{60 min} 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: 50 ppm / 240 mg/m³

Chemical: CAS No.: 7732-18-5 water

Chemical: phosphate buffer solution CAS No : -

11 mL Anionic Surfactants 4 (R2)

CAS No.: 61-73-4 Chemical: methylene blue

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

DNEL: 50 μg/m³

DNEL = Derived No-Effect Level (for workers) $\begin{array}{ccc} PNEC_{(fresh\ water)}: & 2.5\ \mu g/L \\ PNEC = Predicted\ No\ Effected\ Concentration \end{array}$

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

Short-term exposure factor: 1 (I)

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/m3

i: NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); TWA 1 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] 1 mg/m³

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

Use for open access of these substances for example a protection filter, class A/AX. 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, for chlorinated carbons consist of viton (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.

8.2.4 Skin protection

Recommended to avoid contamination with these hazards.

8.2.5

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

6 mL Anionic Surfactants 4 (R0)

Odor: like chloroform Colour colourless Appearance: liquid (2 phases)

11 mL Anionic Surfactants 4 (R2)

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Appearance: liquid Colour: blue Odor: odorless

pH: 1-2 Solubility in water: 0-100 %

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

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.

6 mL Anionic Surfactants 4 (R0)

Chemical: methanol CAS No.: 67-56-1
TSCA Inventory: listed California Proposition 65 List: listed, developmental

ACGIH: 200 ppm / 160 mg/m³

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

Target Organs: Eyes, skin, respiratory system, central nervous system, gastrointestinal tract

Symptoms: irritation eyes, skin, upper respiratory system; headache, drowsiness, dizziness, nausea, vomiting;

visual disturbance, optic nerve damage (blindness

Australia NICNAS: Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: PAC yes, Japan PDSCL: Deleterious Substance Japan ISHL: PAC yes, Japan PDSCL: Deleterious Substance listed ≥0,3%/≥0,1%, Article 57-2 (SDS required)

South Korea TCCA: Accident Precaution Chemical yes

Korea Exist.Chem.Inventory: KE-23193, Toxic 97-1-80

LD50_{orl rat}: 5628 mg/kg
LC_Low_{ihl rat}: [4h] 64000 mg/m³
LC_Low_{orl hmn}: 143 mg/kg
LC50_{ihl rat}: [4h] >80 mg/L
LD50_{drm rbt}: 15800 mg/kg
LD50_{orl mus}: 7300 mg/kg

Acute Effects: Cause after oral intake, inhalation of vapours/dust, skin contact, impairments of health when ingested in small

quantities. Chronic Effects:

TRGS 905 (DE): $R_F C$

Chemical: chloroform CAS No.: 67-66-3
TSCA Inventory: listed California Proposition 65 List: listed: cancer, developmental

ACGIH: 10 ppm

Exposure Routes: inhalation, skin absorption, ingestion, skin and/or eye contact Target Organs: Liver, kidneys, heart, eyes, skin, central nervous system

Symptoms: irritation eyes, skin; dizziness, mental dullness, nausea, confusion; headache, lassitude (weakness,

exhaustion); anesthesia; enlarged liver; [potent

Australia NICNAS: not listed Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: PCA Yes, PRTR: ≥1,0% class I, Japan PDSCL: Deleterious Substance

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

South Korea TCCA: not listed

Korea Exist.Chem.Inventory: KE-34076, Toxic 97-1-281

908 mg/kg LD50_{orl rat}: LC_LoWinl hmn: LC_LoWorl hum/rbt: 25000 mg/m³ 140/500 mg/m³ LC50_{ihl rat}: 47.7_{4h} g/m³ LD50_{drm rat}: >15800 mg/kg LD50_{drm rbt}: > 20 g/kg

Acute Effects: Cause severe after inhalation of vapours, impairments of health or can lead to death even when only ingested in

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

Chronic Effects: May cause damage to organs through prolonged or repeated exposure.

Carcinogenic Effects: Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

EU carcinogen: carc. 2, repr. 2 TRGS 905 (DE): K2, M3, RE 3

CAS No.: 7732-18-5 Chemical: water

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-35400

phosphate buffer solution CAS No.: -Chemical:

TSCA Inventory: all listed Korea Exist.Chem.Inventory: listed

11 mL Anionic Surfactants 4 (R2)

Chemical: methylene blue CAS No.: 61-73-4

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-06942 LD50_{orl rat}: 1180 mg/kg

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

California Proposition 65 List: not listed TSCA Inventory: 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

Australia NICNAS: Japan CSCL/PRTR: not listed Canada CEPA 1999: DSL Yes

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 LD50_{orl rat}:

2140 mg/kg [8h] 600/ [4h] 850 mg/m³ LC50_{ihl rat}:

TRGS 905 (DE): R_F C

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

6 mL Anionic Surfactants 4 (R0)

Chemical: CAS No.: 67-56-1

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 20.8 mg/L

LC50_{daphnia magna/48h}: [24h] 23.5 g/L LC50pimephales promelas/96h: 29.4 g/L LC50fish/96h: 15.4 g/L EC50daphnia/48h: >10 g/L

IC50_{scenedesmus} quadricauda/72h: [IC5 8d] 8000 mg/L EC10_{pseudomonas putita/16h}: [EC5] 6.6 g/L WĞK No.: 0145 Water hazard class (DE):

Dispersion coefficient(octanol-water): -0.77

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> Storage class (VCI): 3

Chemical: chloroform CAS No.: 67-66-3

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 0.146 mg/L

 $LC50_{fish/96h}$: 18 mg/L

EC50daphnia/48h: 6.3_{21d} NOEC mg/L Water hazard class (DE): WGK No.: 0054

Dispersion coefficient_(octanol-water): 1.97 Storage class (VCI): 12

CAS No.: 7732-18-5 Chemical: water

phosphate buffer solution Chemical: CAS No .: -

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

11 mL Anionic Surfactants 4 (R2)

CAS No.: 61-73-4 Chemical: methylene blue

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

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

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 2.5 µg/L

LC50fish/96h: [NOEC, 65d] 25 µg/L

EC50_{daphnia/48h}: 100 mg/L EC10_{pseudomonas putita/16h}: [72h] 100 mg/L Water hazard class (DE): WGK No.: 0182

8 B Storage class (VCI):

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). Or collect in solvent waste (waste code number 07 07 04). Close container tightly.

13.1 Waste treatment methods

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: Tunnel restriction code:

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: Α

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

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Printing date: 01.10.2019 Date of issue: 05 09 2018

Or use Alternative declaration for transportation:

UN No.: (see below) UN 1993 class 3 III, class 6.1 III, Excepted Quantities (≤30 mL/∑≤1 L) = ADR/ IATA E1

14.1 UN number: 1888 14.2 UN proper shipping name: Chloroform

14.3 Class: 14.4 Packing group: 6.1

Road transport

Classification code: T1 Tunnel restriction code:

Limited Quantity: 5 L **Excepted Quantity:**

Air transport PAX:

680 max. weight PAX: 60 L CAO. 680 220 L max. weight CAO:

Maritime transport

EmS: F-A, S-A Storage category:

14.1 UN number: 1992 14.2 UN proper shipping name: Flammable liquid, toxic, n.o.s. (methanol solution)

Additionally class: 6.1 _14.4 Packing group: 14.3 Class:

Road transport

Classification code: FT1

Limited Quantity: **Excepted Quantity:** Air transport PAX-355 CAO: 366

max. weight PAX: 60 I max. weight CAO: 220 L

Tunnel restriction code:

Special instructions:

Maritime transport

F-E. S-D FmS: Storage category:

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

List of H and P phrases 16.1

16.1.1 List of relevant H phrases

Flammable liquid and vapour. H226 H302 Harmful if swallowed. H312 Harmful in contact with skin H315 Causes skin irritation. H319 Causes serious eye irritation.

H331 Toxic if inhaled. H332 Harmful if inhaled

May cause drowsiness or dizziness. H336 H351 Suspected of causing cancer.

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US:



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Safety Data Sheet

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

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	H361	Suspected of damaging fertility or the unborn child.	
	H371	May cause damage to organs.	
	H373	May cause damage to organs through prolonged or repeated exposure.	
16.1.2 List of relevant P phrases			
	P201	Obtain special instructions before use.	
	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
	P260D	Do not breathe vapours.	
	P260sh	Do not breathe dust/vapours.	
	P261sh	Avoid breathing 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.	
	P302+352	IF ON SKIN: Wash with plenty of water.	
	P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
	P311	Call a POISON CENTER/doctor.	
	P330	Rinse mouth.	
	P403+233	Store in a well-ventilated place. Keep container tightly closed.	

16.2 Training advice

P405

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)!

Store locked up.

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

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

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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