

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

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

1.1 **Product identifier**

REF 701952

Product name Derivatisation method dev kit

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 1 mL MBTFA 2 x 1 mL MSTFA $2 \times 1 \text{ mL TMSH}, 0,2 \text{ M}$

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG

Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY

Tel.: +49 2421 969 0 E-mail: sds@mn-net.com (msds@mn-net.com)

1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

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

SECTION 2: Hazard identification

2.0 Classification of the complete product



GHS02



GHS05



GHS06



GHS07



US:

DANGER Signal word

ard identification Hazard classes/categoric	
Flam. Liq. 2	
Flam. Liq. 3	
Acute Tox. 3 oral	
Acute Tox. 4 oral	
Acute Tox. 3 derm.	
Skin Corr. 1B	
Skin Irrit. 2	
Eye Irrit. 2	
Acute Tox. 3 inh.	
STOT SE 1	

2.1 Classification of the substance or mixture

1 mL MBTFA

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Signal word **DANGER**

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H314US	Skin Corr. 1B
H315	Skin Irrit. 2
H319	Eve Irrit. 2

1 mL MSTFA





GHS07

WARNING Signal word

Hazard identification	Hazard classes/categories
H226	Flam. Liq. 3
H302	Acute Tox. 4 oral
H315	Skin Irrit. 2
H319	Eye Irrit. 2

1 mL TMSH, 0,2 M







GHS08

DANGER Signal word

Hazard identification	Hazard classes/categorie	
H225	Flam. Liq. 2	
H301	Acute Tox. 3 oral	
H311	Acute Tox. 3 derm.	
H331	Acute Tox. 3 inh.	
H370	STOT SE 1	

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).

1 mL MBTFA







GHS05

Signal word: DANGER

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H314US

Causes severe skin burns and eye damage. (not regulated in EU-CLP)

P260D, P280sh, P303+361+353, P305+351+338, P501

Do not breathe 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. Dispose of contents/container to regulated waste treatment.

1 mL MSTFA





Signal word: WARNING

1 mL TMSH, 0,2 M







GHS02

Signal word: DANGER

H301, H311, H331, H370

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes damage to organs.

P260sh, P280sh, P301+310, P302+352, P405

Do not breathe dust/vapours. Wear protective gloves/eye protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of water. Store locked up.

2.3 Other hazards

Possible hazards from physicochemical properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive. In the case of pH values are less than 5 or higher than 9 then it is irritant. Flammable properties.

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. Cause severe after oral intake, inhalation of vapours, skin contact, impairments of health or can lead to death even when only ingested in small quantities. Cause after oral intake, impairments of health when ingested in small quantities. Causes damage to organs. -

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**

1 mL MBTFA

N-methyl-bis(trifluoroacetamide) (MBTFA) Chemical:

yl-bis(trifluoroacetamide) (MBTFA)
H226, Flam. Liq. 3, H302, Acute Tox. 4 oral, H314US, Skin Corr. 1C, H315, Skin Irrit. 2, H319, Eye Classification:

Irrit. 2 Formula: C₅ H₃ F₆ NO₂ TSCA Inventory: not listed

211-680-5 MFCD: 00000412 EC No.:

95 - < 100 % Concentration:

acc. CLP (GHS): H226, Flam. Liq. 3, H302, Acute Tox. 4 oral, H314US, Skin Corr. 1C, H315, Skin Irrit. 2, H319, Eye

US:

Irrit. 2

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1 mL MSTFA

Chemical: N-methyl-N-trimethylsilyl-trifluoroacetamide (MSTFA) CAS No.: 24589-78-4 H226, Flam. Liq. 3, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2 Classification:

Formula: C₆ H₁₂ F₃ NOSi listed for R&D TSCA Inventory: EC No.: 246-331-6

RTECS: AC9800000 MFCD: 00000411

not listed KF No . Concentration: 95 - <100 %

acc. CLP (GHS): H226, Flam. Liq. 3, H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H319, Eye Irrit. 2

1 mL TMSH, 0,2 M

trimethylsulfonium hydroxide (TMSH) Chemical: CAS No.: 17287-03-5

Classification: H314, Skin Corr. 1B

 $C_3\,H_{10}\,OS$ Formula:

MFCD: TSCA Inventory: not listed 00216756

KE No.: not listed Concentration: 2 - <4 %

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

CAS No : 67-56-1 Chemical: methanol

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

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 RTECS: PC1400000 MFCD: 00004595

KE No.: KE-23193, Toxic 97-1-80 Concentration: 95 - <100 %

acc. CLP (GHS): H225, Flam. Liq. 2, H301, Acute Tox. 3 oral, H311, Acute Tox. 3 derm., H331, Acute Tox. 3 inh.,

H370. STÒT SÉ 1

3.3 Remarks

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

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 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).

4.1.3

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. 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,

After ORAL Intake 4.1.4

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

4.2 Most important symptoms and effects, both acute and delayed

Chronic Effects: Causes damage to organs. ---

Indication of any immediate medical attention and special treatment needed 4.3

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> After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen. TOXIFICATION: Treat symptomatically. Secure the breathing, heart and circulatory function. Remove the substance quickly from the body. Mechanically induce vomiting or ensure the patient eats medicinal charcoal compressed tablets or drinks aluminium oxide drug suspensions. In order to ensure rapid passage through the colon (administer 2 tablespoons of dissolved Glauber's salt). Alleviation of pain, if necessary sedation. Shock treatment. Administer a prophylaxis to counter pulmonary oedema.

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

WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. DANGER: Highly flammable (GHS regulation). Forms 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. 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.

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. Use only in well-ventilated working areas.

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): 3 Water hazard class (DE):

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.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1 mL MBTFA

Chemical: N-methyl-bis(trifluoroacetamide) (MBTFA) CAS No.: 685-27-8

1 mL MSTFA

N-methyl-N-trimethylsilyl-trifluoroacetamide (MSTFA) CAS No.: 24589-78-4 Chemical:

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

1 mL TMSH, 0,2 M

trimethylsulfonium hydroxide (TMSH) CAS No : 17287-03-5 Chemical:

Chemical: CAS No.: 67-56-1

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

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

EU value: [TWA] 200 ppm / 260 mg/m³

TRGS 900 (DE): 200 ppm / 270 mg/m³

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 U/c,b 30 mg/L TRGS 903 (DE):

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

[TWA, skin] 200 ppm / 260 mg/m³ NIOSH:

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

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.

821 Respiratory protection

Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.

822

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC (f.ex. from Ansell or KCL). Use for short times chemical resistant latex or nitril 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

1 mL MBTFA

Appearance: liquid Colour: colourless Odor: penetrative

< 2 pH: Boiling point: 124 °C 42 °C Flash point: Specific gravity: 1,55 g/cm³

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1 mL MSTFA

Colour: colourless Appearance: liquid Odor: penetrative

25 °C 131 °C Melting point: Boiling point: 26 °C Flash point: Vapour density_(air=1): 6,87 Specific gravity: 1,079 g/cm³

1 mL TMSH, 0,2 M

Appearance: liquid Odor: alcoholic Colour: colourless

Melting point: -98 °C Boiling point: 64.7 °C 11 °C Flash point: Evaporation rate_(ether=1): 6.3

5.5-44 Vol% **Explosion limits:** 128 hPa Vapour pressure (20°C): Vapour density(air=1): 1,11 Specific gravity: 0,79 g/cm³ Solubility in water: 0-100 % Flashing temperature: 455 °C Volatiles by volume: 168 mg/m³

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**

Substances are very volantile and form flammable vapour-air mixtures. ---

SECTION 10: Stability and reactivity

10.1 Reactivity

. Reacts with water (sometimes violent) and diverse organic compounds. 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. ---

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.

1 mL MBTFA

Chemical: N-methyl-bis(trifluoroacetamide) (MBTFA) CAS No.: 685-27-8

TSCA Inventory: not listed

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

1 mL MSTFA

Chemical: CAS No.: 24589-78-4 N-methyl-N-trimethylsilyl-trifluoroacetamide (MSTFA)

TSCA Inventory: listed for R&D California Proposition 65 List: not listed Australia NICNAS: Canada CEPA 1999: not listed

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

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: not listed

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> LC50_{ipr mus}: 1000 mg/m³

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

1 mL TMSH, 0,2 M

Chemical: trimethylsulfonium hydroxide (TMSH) CAS No.: 17287-03-5

TSCA Inventory: not listed Korea Exist.Chem.Inventory: not listed

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

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

South Korea TCCA: Accident Precaution Chemical yes

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

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

Acute Effects: Cause severe after oral intake, inhalation of vapours, skin contact, impairments of health or can lead to death even

when only ingested in small quantities. Chronic Effects: Causes damage to organs.

TRGS 905 (DE): R_F C

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

1 mL MBTFA

N-methyl-bis(trifluoroacetamide) (MBTFA) Chemical: CAS No.: 685-27-8

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

1 mL MSTFA

Chemical: N-methyl-N-trimethylsilyl-trifluoroacetamide (MSTFA) CAS No.: 24589-78-4

Water hazard class (DE): Storage class (VCI): 10

1 mL TMSH, 0,2 M

Chemical: trimethylsulfonium hydroxide (TMSH) CAS No.: 17287-03-5

Storage class (VCI):

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

Avoid contact of substance/mixture to environment. 20.8 mg/L

PNEC (fresh water):
PNEC = Predicted No Effected Concentration

LC50_{daphnia magna/48h}: [24h] 23.5 g/L $LC50_{pimephales\ promelas/96h}$: 29.4 g/L LC50_{fish/96h}: 15.4 g/L >10 g/L EC50_{daphnia/48h}:

[IC5 8d] 8000 mg/L IC50_{scenedesmus} quadricauda/72h: EC10pseudomonas putita/16h: [EC5] 6.6 g/L Water hazard class (DE): WĞK No.: 0145

Dispersion coefficient_(octanol-water) -0.77Storage class (VCI):

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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). Close container tightly.

13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains. Dispose of contents/container to regulated waste treatment.

SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations because

for amounts until 5 pc. à 20x 1 mL per fibre box **De Minimis** (excepted quantities: ≤ 1 mL/ $\sum \leq 100$ mL) = ADR 3.5.1.4 **De Minimis** (excepted quantities: ≤ 1 mL/ $\sum \leq 100$ mL) = IATA DRG 2.6.10

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

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.

H314US Causes severe skin burns and eye damage. (not regulated in EU-CLP)

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US:



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

REF: 701	952	Derivatisation method dev kit	Page: 10/10
Printing of	date: 02.06.2020	Date of issue: 10.03.2020	
	H315 H319 H331 H370	Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. Causes damage to organs.	
16.1.2	List of relevant P	Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
	P233 P260D P260sh	Keep container tightly closed. Do not breathe vapours. Do not breathe dust/vapours.	
	P261sh P264W	Avoid breathing dust/vapours. Wash with water thoroughly after handling.	
	P280sh P301+310	Wear protective gloves/eye protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
	P301+312 P301+330+331	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
	P302+352 P303+361+353 P304+340	IF ON SKIN: Wash with plenty of water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with VIF INHALED: Remove person to fresh air and keep comfortable for breathing.	water [or shower].
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, do. Continue rinsing.	if present and easy to
	P311 P312	Call a POISON CENTER/doctor. Call a POISON CENTER/doctor if you feel unwell.	
	P330 P403+233 P405	Rinse mouth. Store in a well-ventilated place. Keep container tightly closed. Store locked up.	
	P501	Dispose of contents/container to regulated waste treatment.	

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

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 453/2010/EU REACH - REQUIREMENTS FOR THE COMPLETION OF CALE IT IS 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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