MACHEREY-NAGEI



Safety Data Sheet

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

REF: 701520.510	TMSH, 0,2 M, 5x10 mL	Page: 1/8
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
------------------------	--

REF Product name 701520.510 TMSH, 0,2 M, 5x10 mL

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.

5 x 10 mL TMSH, 0,2 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)

US:

Tel.:

Fax:

+1 484 821 0984

+1 484 821 1272

E-mail: sales-us@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

2.1 Classification of the substance or mixture

10 mL TMSH, 0,2 M

	GHS02	GHS06	GHS08
Signal word	DANGER		
llemend identification			
Hazard identification	Hazard ci	asses/cate	egories

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).



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10 mL TMSH, 0,2 M



GHS02 GHS06 GHS08

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 Flammable properties.

Information pertaining to particular risks to human and possible symptoms

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. 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

10 mL TMSH, 0,2 M

Chemical: trimethylsulfonium hydroxide (TMSH) CAS No.: 17287-03-5	
Classification: H314, Skin Corr. 1B	
Formula: $C_3 H_{10} OS$	
TSCA Inventory: not listed MFCD: 00216756	
KE No.: not listed	
Concentration: 2 - <4 %	
acc. CLP (GHS): The criteria for classification are not fulfilled.	
Chemical: methanol CAS No.: 67-56-1	
Classification: H225, Flam. Liq. 2, H301, Acute Tox. 3 oral, H311, Acute Tox. 3 derm., H331, Acute H370, STOT SE 1	e Tox. 3 inh.,
Formula: CH ₄ O, CH ₃ 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 H370, STOT SE 1	e Tox. 3 inh.,

3.3 Remarks

List of H and P phrases: see section 16.1



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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. 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 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. 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, heart and circulatory function. --

4.1.4 After ORAL Intake

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

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

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.

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6.4	Reference to other sec see information in section 5.4	ctions				
SEC	TION 7: Handling and	storage				
7.1	Precautions for safe h Handling in accordance with t	-	Use only in well-ventilated working areas.			
7.2	-	Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas. 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 1				
7.2.1	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.					
SEC	TION 8: Exposure cor	ntrols/personal protection				
8.1	Control parameters					
	10 mL TMSH, 0,2 M Chemical: <i>trimethylsu</i>	lfonium hydroxide (TMSH)	CAS No.: 17287-03-5			
	Chemical: <i>methanol</i> DNEL: DNEL = Derived No-E	[derm] 40 mg/kg bw/day; [inh] 260 mg/m³ ffect Level (for workers)	CAS No.: 67-56-1			
	PNEC(fresh water) : PNEC = Predicted No	· · · · ·				
	EU value: TRGS 900 (DE):	[TWA] 200 ppm / 260 mg/m ³ 200 ppm / 270 mg/m ³ E/e respirable				
	Short-term exposure fact skin resorptive (H), re		nic (Z) not securely excluded / (Y) certainly excluded			
	SUVA(CH) MAK value: SUVA(CH) BAT value: TRGS 903 (DE):	200 ppm/ 260 mg/m ³ [U/c,b] 30 mg/L U/c,b 30 mg/L B blood, U urine, a no limitation, b end of exposition				
	NIOSH: NIOSH STEL: [TWA] Time-weighted	[TWA, skin] 200 ppm / 260 mg/m ³ 250 ppm / 325 mg/m ³ average to a reference period of 8 hours, [STEL] Short-term	n exposure limit related to a 15-minute period			
	OSHA:	[TWA] 200 ppm / 260 mg/m ³				
8.2	Exposure controls					
			Is with floor drainage and washing facilities. The highest			
821	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 (f.ex. from Ansell or KCL). Use for short times chemical resistant latex or nitril gloves with code EN 374-3 level 1.

Eye protection 8.2.3

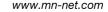
Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

Skin protection 8.2.4

Recommended to avoid contamination with these hazards.

Personal hygiene 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.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

10 mL TMSH, 0,2 M Appearance: liquid Melting point: Boiling point: Flash point: Evaporation rate(ether=1): Explosion limits: Vapour pressure (20°C): Vapour density_(air=1): Specific gravity: Solubility in water: Flashing temperature: Volatiles by volume:

6,3 5.5-44 Vol% 128 hPa 1,11 0,79 g/cm³ 0-100 % 455 °C

Colour: colourless

-98 °C

64.7 °C 11 °C

168 mg/m³

Odor: alcoholic

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.

10 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:	methanol	CAS No.: 67-56-1
TSCA Inventory:	listed	California Proposition 65 List: listed, developmental
ACGIH:	200 ppm / 160) mg/m ³
Exposure Routes:	inhalation, ski	n absorption, ingestion, skin and/or eye contact
Target Organs:	Eyes, skin, res	spiratory system, central nervous system, gastrointestinal tract
Symptoms:	irritation eyes,	skin, upper respiratory system; headache, drowsiness, dizziness, nausea, vomiting;
visual disturbance, op	tic nerve damage (blir	Idness
Australia NICNAS:		Canada CEPA 1999: DSL yes
Japan CSCL/PRTR:	PAC yes, Japa	an PDSCL: Deleterious Substance
Japan ISHL:	listed ≥0,3%/≥	0,1%, Article 57-2 (SDS required)
South Korea TCCA:	Accident Prec	aution Chemical yes
Korea Exist.Chem.Inv	entory: KE-23193, To	xic 97-1-80
LD50 _{orl rat} :	5628 mg/kg	



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[4h] 64000 mg/m³ LC_Lowihl rat : LC_Loworl hmn : 143 mg/kg [4h] >80 mg/L LC50_{ihl rat}: LD50drm 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 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.

10 mL TMSH, 0,2 M

Chemical: trimethylsulfonium hydroxide (TMSH) CAS No.: 17287-03-5 Storage class (VCI): 3 methanol CAS No.: 67-56-1 Chemical: Avoid contact of substance/mixture to environment. PNEC (fresh water) : PNEC = Predicted No Effected Concentration 20.8 mg/L LC50daphnia magna/48h : [24h] 23.5 g/L 29.4 g/L LC50pimephales promelas/96h : 15.4 g/L LC50_{fish/96h}: EC50_{daphnia/48h}: >10 g/L [IC5 8d] 8000 mg/L IC50scenedesmus quadricauda/72h : EC10pseudomonas putita/16h : [EC5] 6.6 g/L WGK No.: 0145 Water hazard class (DE): 1 Dispersion coefficient(octanol-water): -0.77 Storage class (VCI): 3

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

		2. UN proper shipping name: Chemical Kit
14.3. Class:	9 14.4	4. Packing group: II
Road transport		
Classification code:	M11	Tunnel restriction code: E
Limited Quantity:	acc. ADR 3	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



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<i>Maritime transport</i> EmS:	F-A, S-P	Storage category:	,	
Or use Alternative of	declaration fo	or transportation:		
14.1 UN number: 14.3 Class: Road transport	3 Add	UN proper shipping na itionally class: 6.1 _14.4	ne: Flammable liquid, toxic, n.o.s. (methanol solution) Packing group: II	
Classification code: Limited Quantity: Excepted Quantity: Air transport	FT1 1 L E 2	Tunnel restriction code Special instructions: 2	—	
PAX: CAO: Maritime transport	352 364	5	L 0 L	
EmS:	F-E, S-D	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

16.1 List of H and P phrases

.....

16.1.1 List of relevant H phrases	
H225 Highly flammable liquid and vapour.	
H301 Toxic if swallowed.	
H311 Toxic in contact with skin.	
H331 Toxic if inhaled.	
H370 Causes damage to organs.	
16.1.2 List of relevant P phrases	
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
P233 Keep container tightly closed.	
P260sh Do not breathe dust/vapours.	
P261sh Avoid breathing dust/vapours.	
P280sh Wear protective gloves/eye protection.	
P301+310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
P302+352 IF ON SKIN: Wash with plenty of water.	
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for bre	athing.
P311 Call a POISON CENTER/doctor.	-
P312 Call a POISON CENTER/doctor if you feel unwell.	
P403+233 Store in a well-ventilated place. Keep container tightly closed.	
P405 Store locked up.	



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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 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

