MACHEREY-NAGEI



Safety Data Sheet

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

REF: 814012	7x8 ml indiv.comp. of mixture 2 7x8 mL	Page: 1/9
Printing date: 02.06.2020	Date of issue: 05.09.2018	

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

1.1 **Product identifier**

REF Product name 814012 7x8 ml indiv.comp. of mixture 2 7x8 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.

7 x 8 mL Test dye/mixture 2

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

2.1 Classification of the substance or mixture

8 mL Test dye/mixture 2

Signal word



H225	Flam. Liq. 2
H304	Asp. Tox. 1
H315	Skin Irrit. 2
H336	not defined
H361d	Repr. 2
H373	STOT RE 2
H410	Aquatic Chronic 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)

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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8 mL Test dye/mixture 2



GHS07 GHS02 GHS08

Signal word: DANGER

H304, H361d, H410 May be fatal if swallowed and enters airways. Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects.

P280sh, P301+310, P331, P391 Wear protective gloves/eye protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting. Collect spillage.

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 Suspected of damaging the unborn child. May be fatal if swallowed and enters airways. -

Information pertaining to particular risks to the environment

Very toxic 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

8 mL Test dye/mixture 2 Chemical: toluene Classification: H225, Flam. Liq. 2, H304, Asp. Tox. 1, H315, Skin Irrit. 2, H336, STOT SE 3, H361d, Repr. 2, H373, STOT RE 2 Formula: C7 H8; CH3 - C6 H5

Pseudonym:	methyl-benzene		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119471310-51-xxxx		
EC No.:	203-625-9	Indice No.:	601-021-00-3
RTECS:	XS5250000	MFCD:	00008512
KE No.:	KE-33936, Toxic 97-1-298, Acc. Pre	caution Chem.	
Concentration:	60 - <80 %		
acc. CLP (GHS):	H225, Flam. Liq. 2, H304, Asp. Tox.	1, H315, Skin Irrit. 2, I	H336, STOT SE 3, H361d, Repr. 2, H373,
STOT RE 2			
Chemical: cyclohe			CAS No.: 110-82-7
Classification:	H225, Flam. Liq. 2, H304, Asp. Tox.	1, H315, Skin Irrit. 2, I	H336, STOT SE 3, H410, Aquatic Chronic
1			
Formula:	C ₆ H ₁₂		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119463273-41-xxxx		
EC No.:	203-806-2	Indice No.:	601-017-00-1
RTECS:	GU6300000	MFCD:	00003814
KE No.:	KE-18562		
Concentration:	30 - <40 %		
acc. CLP (GHS):	H225, Flam. Liq. 2, H304, Asp. Tox.	1, H315, Skin Irrit. 2, I	H336, STOT SE 3, H410, Aquatic Chronic
1			

CAS No.: 108-88-3



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	314012	7x8 ml indiv.comp. of mixture 2 7x8 mL	Page: 3/9
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	Chemical: dye(s Classification: TSCA Inventory: Concentration: acc. CLP (GHS):	 c) for testing CAS No.: - No criteria for classification or naming of chemical not required. all listed, <1% 0.1 - <1 % 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	
SEC	ΓΙΟΝ 4: First aid measu	res	
4.1	Description of first aid m	easures	
	Place insured person out of dang necessary contact medical advice	er zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitatio e.	n if necessary. If
4.1.1	After SKIN Contact Remove contaminated clothi soap.	ng. Rinse the affected skin or mucous membrane thoroughly under running wat	er. (If possible) use
4.1.2	After EYE Contact After contact with the eyes rin running water (protect intact	nse thoroughly under running water with the eyelid wide open with eye washing eye).	bottle, eye douche or
4.1.3	After INHALATION of vapo After inhalation of foam or va	u rs pour fresh air should be inhaled. Keep airways free	
4.1.4	After ORAL Intake After oral intake lots of water	should be drunk after it has been ingested	
4.2	• • •	s and effects, both acute and delayed	
4.3	CMR Effects: Suspected of dama	ate medical attention and special treatment needed	
4.5		ate medical attention and special treatment needed	
SEC	FION 5: Firefighting mea	asures	
5.1	Extinguishing media		
		he fire classification, and, if applicable, a fire blanket must be available in a pro OAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.	minent location in the
5.2		rom the substance or mixture S regulation). Forms explosive vapour-air mixtures. Formation of hazardous and	d caustic vapour-air
5.3	Advice for firefighters No, for listed product. Product page	ckage burns like paper or plastic.	
5.4	Additional information		
SECT	FION 6: Accidental relea	ase measures	
6.1	Personal precautions. pr	otective equipment and emergency procedures	
	Do not breathe vapours. Wear su	itable protective gloves (see 8.2.2). Regular staff training is necessary, indicatin ting instructions. Restrictions on activity must be observed.	g hazards and

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. Not for organic solvents (see section 13).



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6.4	Reference to	o other secti		
SEC ⁻	TION 7: Hand	lling and s	storage	
7.1	Precautions		ndling test instruction, that comes with the product.	
7.2	Conditions f	for safe stor duct package of /CI):	age, including any incompatibilities MACHEREY-NAGEL allows a safe storage. 3 2	
7.2.1			boms and containers ages tightly closed during handling and storage.	
7.3	Specific end Product for anal	• •		
SEC	TION 8: Expo	sure cont	rols/personal protection	
8.1	Control para	meters		
	Chemical: DNEL: DNEL PNEC(fresh PNEC EU value: TRGS 900 Short-term skin SUVA(CH) SUVA(CH) TRGS 903 NIOSH: NIOSH: TWA OSHA: Chemical:	water) : C = Predicted No Eff (DE): exposure factor: resorptive (H), resp MAK value: BAT value: (DE): SH STEL:	iratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded [MAK] 190/[STEL] 760 mg/m ³ B/b 1,0 mg/L B/b 600 μg/L B blood, U urine, a no limitation, b end of exposition or shift TWA 100 ppm / 375 mg/m ³ TWA 150 ppm / 560 mg/m ³ erage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period TWA 200 / C 300 / 500 _{10min} ppm CAS No.: 110-82-7	
	PNEC(fresh PNEC EU value: TRGS 900 Short-term skin SUVA(CH) SUVA(CH) TRGS 903 NIOSH:	water) : C = Predicted No Eff (DE): exposure factor: resorptive (H), resp MAK value: BAT value: (DE):	700 _{inh} mg/m ³ ct Level (for workers) 0.207 mg/L fected Concentration 200 ppm / 700 mg/m ³ 200 ppm / 700 mg/m ³ A/a aveoles passing, E/e respirable, G total 4 (II) irratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded 200 ppm / 700 mg/m ³ U/b, C 150Kreatinin mg/g U/b, U/c 150Kreatinin mg/g B blood, U urine, a no limitation, b end of exposition or shift not listed erage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period not listed	
	Chemical:	dye(s) for tes	ting CAS No.: -	

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.

MACHEREY-NAGE <u> (MN</u> ISO 9001 CERTIFIED

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8.2.1	Respiratory protection No additional recommendations				
8.2.2		permeation time >30 min - level 2), consist of PVC (f.ex. from Ansell or K0 gloves with code EN 374-3 level 1.	CL). Use for short times		
8.2.3	Eye protection Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.				
8.2.4	Skin protection Recommended to avoid contam	ination with these hazards.			
8.2.5	with the skin, eyes and clothing	g snuff and storage of food in work areas and at outdoor workplaces is pro Rinse any clothing on which the substance has been spilled, and soak it when stopping work and before eating, and then apply protective skin cre	in water. Wash hands		
SECTIO	N 9: Physical and che	mical properties			

9.1 Information on basic physical and chemical properties

8 mL Test dye/mixture 2 Appearance: liquid Colour: red Odor: like chloroform Odor limit: 50-200 mg/m³ -63.5 °C 61.7 °C Melting point: Boiling point: 211 hPa Vapour pressure (20°C): Vapour density_(air=1): 4,12 Specific gravity: 1,48 g/cm3 Solubility in water: <1% 982 °C Flashing temperature: Volatiles by volume: 1035 g/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 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

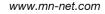
11.1 Information on toxicological effects

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available. 8 mL Test dye/mixture 2



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	Chemical: TSCA Inventory: reproductive harms ACGIH:	<i>toluene</i> listed 50 ppm	CAS No.: 108 California Proposition 65 List: WARNING! Cause b	
	Target Organs: Symptoms: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA:	affect the e conjunctivi not listed PAC Yes, listed ≥0,3 not listed	0 mg/L	
			organs through prolonged or repeated exposure. aging the unborn child.	
	Chemical: TSCA Inventory: Symptoms: Australia NICNAS: Japan CSCL/PRTR: Japan ISHL: South Korea TCCA: Korea Exist.Chem.Ir LD50 _{orl rat} : LC50 _{ihl rat} : LD50 _{drm rbt} :	not listed PAC Yes, listed ≥1,0 not listed	CAS No.: 110 California Proposition 65 List: not listed on; mild eye irritation Canada CEPA 1999: DSL Yes Japan PDSCL: not listed %/≥1,0%, Article 57-2 (SDS required)	-82-7
	Chemical: TSCA Inventory:	<i>dye(s) for testing</i> all listed, <	1% CAS No.: -	
2.1	N 12: Ecologica Foxicity Following information i			
	LC50daphnia mag LC50fish/96h EC50daphnia/48h EC50pseudokirchi Water hazard cl	toluene): No Effected Concentration Ina/48h : : neriella subcapitata/72h : ass (DE): ficient _(octanol-water) :	0.68 mg/L [4d] 3.78 mg/L [4d] 5.5 mg/L 3,23 mg/L	: 108-88-3

CAS No.: 110-82-7 Chemical: cyclohexane Very toxic to aquatic life with long lasting effects. Avoid contact of substance/mixture to environment. Environmental hazards must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2). PNEC(fresh water) : PNEC = Predicted No Effected Concentration 0.207 mg/L LC50fish/96h: 34 mg/L EC50_{daphnia/48h}: 3.8 mg/L Water hazard class (DE): 2 WGK No.: 0063 Storage class (VCI):



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	Chemical: dye(s) for testir Storage class (VCI):	ng 12	CAS No.: -	
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 assessm no data available	ent		
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).

13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.

SECTION 14: Transport information

14.1. UN number: 14.3. Class: <i>Road transport</i>		UN proper shipping Packing group: II	name: Chemical Kit
Classification code:	M11	Tunnel restriction co	de: E
Limited Quantity: Air transport			native declaration for transportation
PAX:	960	max. weight PAX:	10 KG
CAO:	960	max. weight CAO:	10 KG
Maritime transport		-	
EmS:	F-A, S-P	Storage category:	A
Or use Alternative o UN 1993 class 3 II, I or		transportation: ntities (≤30 mL/∑≤500	mL) = ADR/ IATA E2
14.1 UN number:	1993 14.2	UN proper shipping r	name: Flammable liquid, n.o.s. (toluene mixture)

14.3 Class:	3	14.4	Packing group:	й			•	
Road transport								
Classification code:	F1							
Limited Quantity:	1 L		Tunnel restriction	code:	Е			
Excepted Quantity:	E 2		Special instruction	ns: 6400	2			
Air transport								
PAX:	353		max. weight PAX	: 5 L				
CAO:	364		max. weight CAO	: 60 L				
Maritime transport			-					
EmS:	F-E, 8	S-E	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



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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
SEC	FION 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. H304 May be fatal if swallowed and enters airways. Causes skin irritation. H315 May cause drowsiness or dizziness. H336 Suspected of damaging the unborn child. H361d H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. List of relevant P phrases 16 1 2

. 4		pindses
	P201	Obtain special instructions before use.
	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
	P233	Keep container tightly closed.
	P260D	Do not breathe vapours.
	P260sh	Do not breathe dust/vapours.
	P273	Avoid release to the environment.
	P280sh	Wear protective gloves/eye protection.
	P301+310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P331	Do NOT induce vomiting.
	P391	Collect spillage.

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

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Revisions/Updates

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

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