# MACHEREY-NAGEI



# Safety Data Sheet

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

REF: 814406	Paracetamol solution for comparis. 8 mL	Page: 1/7
Printing date: 02.06.2020	Date of issue: 14.09.2018	

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

REF Product name 814406 Paracetamol solution for comparis. 8 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.

1 x 8 mL Paracetamol reference solution

### 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 Paracetamol reference solution

	GHS02
Signal word	DANGER
Hazard identification	Hazard classes/categories
H225	Flam. Liq. 2

## 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).

# 8 mL Paracetamol reference solution





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		Date of issue: 14.0	09.2018						
	Signal word: DAN	GER							
2.3	Other hazards								
	<b>Possible hazards from ph</b> Flammable properties	ysicochemical properties							
	Information pertaining to	particular risks to human and pos	sible symptoms						
	Information pertaining to	particular risks to the environmer	nt						
	 Other hazards								
SEC	TION 3: Composition/ir	nformation on ingredie	nts						
3.1	Substances or 3.2 Mixtu	Substances or 3.2 Mixtures							
		nce solution anol matured with 1%IPA/1%MEK, acc.20 H225, Flam. Liq. 2 C <sub>2</sub> H <sub>6</sub> O; C <sub>2</sub> H <sub>5</sub> OH ethyl alcohol, methylated spirit listed	016/1867/EU)	CAS No.: 64-17-5					
	REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	01-2119457610-43-xxxx 200-578-6 KQ6300000 KE-13217 90 - <98 % H225, Flam. Liq. 2	Indice No.: MFCD:	603-002-00-5 00003568					
	Chemical: test Classification: TSCA Inventory: Concentration:	t chemical(s) (ppm) No criteria for classification or naming of all <0.1% 0.1 - <1 %	f chemical not required.	CAS No.: -					

### 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.

#### 4.1.1 After SKIN Contact

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

#### 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).

#### 4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

#### 4.1.4 After ORAL Intake

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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



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4.3 Indication of any immediate medical attention and special treatment needed No additionally recommendations. ---

# 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.
- 5.4 Additional information

# SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Do not breathe vapours. Regular staff training is necessary.
- 6.2 **Environmental precautions** not necessary
- 6.3 Methods and material for containment and cleaning up Bind any escaping liquid with inert absorbent. Collect small amounts of leaked liquid and flush with water into drains.
- 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.

- 7.2 Conditions for safe storage, including any incompatibilities The original product package of MACHEREY-NAGEL allows a safe storage. Storage class (VCI): 3 Water hazard class (DE):
- 7.2.1 Requirements for stock rooms and containers Keep original product packages tightly closed during handling and storage.

## 7.3 Specific end use(s)

Product for analytical use.

# SECTION 8: Exposure controls/personal protection

## 8.1 **Control parameters**

8 mL Paracetamol reference	e solution
Chemical: ethanol	CAS No.: 64-17-5
DNEL:	[derm] 343 mg/kg; [inh] 950 mg/m³
DNEL = Derived No-Effect	Level (for workers)
PNEC <sub>(fresh water</sub> ) :	0.96 mg/L
PNEC = Predicted No Effe	cted Concentration
TRGS 900 (DE):	200 mL/m <sup>3</sup> / 380 mg/m <sup>3</sup> A/a aveoles passing, E/e respirable, G total
Short-term exposure factor:	4 (II), Y
skin resorptive (H), respir	atory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded
SUVA(CH) MAK value:	500 ppm / 960 mg/m³
NIOSH:	[TWA] 1000 ppm / 1900 mg/m³
[TWA] Time-weighted aver	age to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period
OSHA:	[TWA] 1000 ppm / 1900 mg/m³



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Chemical: test chemical(s) (ppm)

### 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.

CAS No.: -

- 8.2.1 **Respiratory protection** No additional recommendations.

## 8.2.2 Hand protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC (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 Eye protection

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

#### 8.2.4 Skin protection

Not necessary.

#### 8.2.5 Personal hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

# SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

8 mL Paracetamol reference solution Appearance: liquid Colour: colourless Odor: odorless Odor limit: 19-93 mg/m<sup>3</sup> pH: 7 -114 °C Melting point: Boiling point: 78 °C Flash point: 12 °C Explosion limits: 3.2-15 Vol% Vapour pressure (20°C): 59 hPa 1.59 Vapour density(air=1): 0,79-0,86 g/cm<sup>3</sup> Specific gravity: Solubility in water: 0-100 % Flashing temperature: 425 °C Volatiles by volume: 112 g/m<sup>3</sup>

#### 9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required. Relevant Properties of Substance Group 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

#### 10.5 Incompatible materials

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## 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**

## Information on toxicological effects 11.1

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

# 8 mL Paracetamol reference solution

Chemical:	ethanc	ol		CAS No.: 64-17-5
TSCA Inventory:		listed	California Proposition 65 List: not lis	sted
ACGIH:		1000 ppm		
Exposure Routes:			, skin and/or eye contact	
Target Organs:			ry system, central nervous system, liv	
Symptoms:			nose; headache, drowsiness, lassitud	e (weakness, exhaustion), narcosis; cough;
liver damage; anemi	ia; repro	, 0		
Australia NICNAS:		not listed	Canada CEPA 1999: DSL y	/es
Japan CSCL/PRTR:		not listed, Japan PD		
Japan ISHL:		, , ,	Article 57-2 (SDS required)	
South Korea TCCA:		not listed		
Korea Exist.Chem.Ir	ventory			
LD50 <sub>orl rat</sub> :		6200 mg/kg		
LC_Low <sub>ihl gpg</sub> :		21.9 g/m <sup>3</sup>		
LC_Loworl hmn :		1400 mg/kg		
LC50ihl mouse :		[4h] 39 g/m <sup>3</sup>		
LC50 <sub>ihl rat</sub> :		[10h] 20 g/m <sup>3</sup>		
LD50 <sub>drm rbt</sub> :		20 000 mg/kg		
LD50 <sub>oral mouse</sub> :		3450 mg/kg		
TRGS 905 (DE):		K5, M5, R <sub>F</sub> C		
		-, -, -		
Chemical:	test ch	emical(s) (ppm)		CAS No.: -
TSCA Inventory:		all <0.1%		

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Following information is valid for pure substances.

8 mL Paracetamol reference solution Chemical: ethanol PNEC(fresh water) : PNEC = Predicted No Effected Concentration	0.96 mg/L	CAS No.: 64-17-5
LC50daphnia magna/48h : LC50pimephales promelas/96h : LC50leuciscus idus/96h : LC50fish/96h : EC50daphnia/48h : IC50scenedesmus quadricauda/72h : EC10pseudomonas putita/16h : Water hazard class (DE): Dispersion coefficient <sub>(octanol-water)</sub> : Storage class (VCI):	>100 mg/L 13400 - 15100 mg/L [48h] 8140 mg/L 13 g/L 9.3-14.2 g/L [7d] 5000 mg/L [EC5] 6500 mg/L 1 WGK No.: 0096 -0.31 3	
Chemical: test chemical( Storage class (VCI):	s) (ppm) 12	CAS No.: -

## 12.2 Persistence and degradability

not necessary

## 12.3 **Bioaccumulative potential**

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not necessary

- 12.4 Mobility in soil
  - not necessary
- 12.5 Results of PBT and vPvB assessment no data available
- 12.6 Other adverse effects
  - no additional data available

# SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

#### 13.1 Waste treatment methods

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

# **SECTION 14: Transport information**

14.1.	UN number:	3316	14.2.	UN proper shipping	g name: Chemical Kit
14.3.	Class:	9	14.4.	Packing group: I	I
Road	transport				
Classi	fication code:	M11		Tunnel restriction co	ode: E
Limite	d Quantity:	acc. A	DR 3.3	.1/251: see LQ in Alte	ernative declaration for transportation
Air tra	nsport				
PAX:		960		max. weight PAX:	10 KG
CAO:		960		max. weight CAO:	10 KG
Maritir	ne transport			-	
EmS:		F-A, S	S-P	Storage category:	A

## Or use Alternative declaration for transportation:

UN 1993 class 3 II, Excepted Quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2 or

14.1 UN number: 14.3 Class: Road transport		2 UN proper shipping name: Flammable liquid, n.o.s. (ethanol mixtu 4 Packing group: II	ıre)
Classification code:	F1		
Limited Quantity:	1 L	Tunnel restriction code: E	
Excepted Quantity: Air transport	E 2	Special instructions: 640C	
PAX:	353	max. weight PAX: 5 L	
CAO: Maritime transport	364	max. weight CAO: 60 L	
EmS:	F-E, S-E	Storage category: B	

### 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.

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## 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

. Highly flammable liquid and vapour.

# H225 High 16.1.2 List of relevant P phrases

# 16.2 Training advice

Regular safety training.

# 16.3 Recommended restriction on use

Only for professional user.

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, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress Regulation 1480/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2019 SUVA .CH, Limits in air at work 2009, revised on 01.2009 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

## **Revisions/Updates**

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU 2017-08 Adaption of new ethanol denaturation 2016/1867/EU

