# ACHEREY-NAGEI



# 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 Product name 701120.101 PFBC, 10x1 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.

10 x 1 mL PFBC

## 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

1 mL PFBC

	GHS05 GHS07
Signal word	DANGER
Hazard identification	Hazard classes/categories
H290 H314 H335	Met. Corr. 1 Skin Corr. 1B STOT SE 3

## 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).

+33 388 68 22 68

+33 388 51 76 88

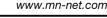
Harmful chemicals/mixtures with signal word: WARNING must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

Metal corrosive solutions do not have to be labelled with GHS symbol, signal word, H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2.1.3).



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1 mL PFBC



Signal word: DANGER

H314

Causes severe skin burns and eye damage.

P260sh, P280sh, P303+361+353, P305+351+338, P310

Do not breathe dust/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. Immediately call a POISON CENTER/doctor.

## 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. --

## 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. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

Cause after inhalation of vapours/dust, impairments of health when ingested in small quantities. -

## 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 PFBC

Chemical: pentafl	uorobenzoyl chloride (PFBC)		CAS No.: 2251-50-5
Classification:	H290, Met. Corr. 1, H314, Skin Corr.	. 1B, H335, STOT SE	3
Formula:	C7 CIF5 O		
TSCA Inventory:	not listed		
EC No.:	218-842-4	MFCD:	00000657
Concentration:	95 - <100 %		
acc. CLP (GHS):	H290, Met. Corr. 1, H314, Skin Corr.	. 1B, H335, STOT SE	3

### 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

### 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 for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

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### 4.1.3 After INHALATION of vapours

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. ---

### 4.1.4 After ORAL Intake

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences. -

### 4.2 Most important symptoms and effects, both acute and delayed

### 4.3 Indication of any immediate medical attention and special treatment needed

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. 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

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, respectively face 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

6.4

### 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.

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.

## 7.2 Conditions for safe storage, including any incompatibilities The original product package of MACHEREY-NAGEL allows a safe storage. Storage class (VCI): 8B Water hazard class (DE): 3

7.2.1 Requirements for stock rooms and containers Keep original product packages tightly closed during handling and storage. Use inbreakable container for transport of glass bottles.



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7.3	Specific end use(s) Product for analytical use.			
SEC	TION 8: Exposure co	ontrols/personal protection		
8.1	Control parameters			
	<b>1 mL PFBC</b> Chemical: <i>pentafluc</i>	robenzoyl chloride (PFBC)	CAS No.: 2251-50-5	
8.2	Exposure controls			
		ion system in the room, floor resistant to chem maintained at the workplace.	cals with floor drainage and washing facilities. T	The highest
8.2.1	Respiratory protection No additional recomme			
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.		short times	
8.2.3	<b>Eye protection</b> Yes, safety glasses acc	ording EN 166 with integrated side shields or v	rap-around protection or face protection.	
8.2.4	Skin protection Recommended to avoid	I clothing damage, and to avoid contamination	with these hazards.	
8.2.5	with the skin, eyes and		as and at outdoor workplaces is prohibited. Avo ance has been spilled, and soak it in water. Wa , and then apply protective skin cream.	

# **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

1 ml PFBC

Appearance: liquid	Colour: colourless	Odor: penetrative
pH:	< 2	
Boiling point:	159 °C	
Specific gravity:	1,60 g/cm <sup>3</sup>	
Solubility in water:	instable %	

## 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

Strong CORROSIVE, . 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

Can react violently with organic material. 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

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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 PFBC

Chemical: pentafluorobenzoyl chloride (PFBC) CAS No.: 2251-50-5 TSCA Inventory not listed Acute Effects: Cause after inhalation of vapours/dust, impairments of health when ingested in small quantities.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Following information is valid for pure substances.

## 1 mL PFBC

Chemical: pentafluorobenzoyl chloride (PFBC) Avoid contact of substance/mixture to environment. Water hazard class (DE): 3 WGK No.: 5924 Storage class (VCI): 8 B

CAS No.: 2251-50-5

- 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).

## 13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains. Empty containers of corrosive reagents prior to disposal, rinse with water.

# **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:  $\leq 1 \text{ mL}/\sum \leq 100 \text{ mL}$ ) = ADR 3.5.1.4 **De Minimis** (excepted quantities:  $\leq 1 \text{ mL}/\sum \leq 100 \text{ mL}$ ) = 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

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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 ---SECTION 16: Other information

## List of H and P phrases 16.1

### 16.1.1 List of relevant H phrases

H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.

## 16.1.2

List of relevant P ph	rases
P260sh	Do not breathe dust/vapours.
P261sh	Avoid breathing dust/vapours.
P280sh	Wear protective gloves/eye protection.
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
	do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P390	Absorb spillage to prevent material damage.
P403+233	Store in a well-ventilated place. Keep container tightly closed.

## 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, 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, 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 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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