

# Safety Data Sheet

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 985076  
 Product name NANOCOLOR ortho and total Phosphate 1

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 20x 27 mg NANOFIX total Phosphate 1-45 R3  
 1 x 20x 35 mg NANOFIX total Phosphate 1-50 R2  
 20 x 1 mL total Phosphate 1 (tubes)  
 1 x 5 mL total Phosphate 1-45 R4

### 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: 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/MSDS>

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product



GHS03 GHS07 GHS08

Signal word DANGER

Hazard identification	Hazard classes/categories
H272	Ox. Sol. 2
H302	Acute Tox. 4
H315	Skin Irrit. 2
H317	Skin Sens. 1
H319	Eye Irrit. 2
H334	Resp. Sens. 1
H335	STOT SE 3

### 2.1 Classification of the substance or mixture

20x 27 mg NANOFIX total Phosphate 1-45 R3

do not need labelling as hazardous



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## 20x 35 mg NANOFIX total Phosphate 1-50 R2



GHS03



GHS07



GHS08

Signal word: DANGER

H317, H334

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P261sh, P280sh, P342+311

Avoid breathing dust/vapours. Wear protective gloves/eye protection. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

## 1 mL total Phosphate 1 (tubes)



GHS07

Signal word: WARNING

## 5 mL total Phosphate 1-45 R4



GHS07

Signal word: WARNING

### 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.

#### Information pertaining to particular Risks to Human and possible Symptoms

Cause after oral intake, inhalation of vapours/dust, skin contact, impairments of health when ingested in small quantities. May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Information pertaining to particular Risks to the Environment

PBT: not applicable

vPvB: not applicable

#### Other Hazards

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## SECTION 3: Composition/Information on Ingredients

### 3.1 Substances or 3.2 Mixtures

#### 20x 27 mg NANOFIX total Phosphate 1-45 R3

Chemical: *L(+)-ascorbic acid*

CAS No.: 50-81-7

Concentration: 90 - <100 %

Formula: C<sub>6</sub> H<sub>8</sub> O<sub>6</sub>

Pseudonym: vitamin C

REACH Reg. No.: exempt, Annex IV

EC No.: 200-066-2

RTECS: C17650000

MFCD: 00064328

TSCA Inventory: listed

KE No.: KE-01947

acc. CLP (GHS): not necessary

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## 20x 35 mg NANOFIX total Phosphate 1-50 R2

Chemical: *sodium peroxodisulfate* CAS No.: 7775-27-1  
 Concentration: 80 - <99 %  
 Formula: Na<sub>2</sub> O<sub>8</sub> S<sub>2</sub>  
 Pseudonym: sodium persulfate  
 REACH Reg. No.: 01-2119495975-15-xxxx  
 EC No.: 231-892-1  
 RTECS: SE0525000  
 TSCA Inventory: listed  
 KE No.: KE-12369  
 acc. CLP (GHS): H272, H302, H315, H317, H319, H334, H335

## 1 mL total Phosphate 1 (tubes)

Chemical: *sulfuric acid* CAS No.: 7664-93-9  
 Concentration: 5 - <15 %  
 Formula: H<sub>2</sub> SO<sub>4</sub>  
 REACH Reg. No.: 01-2119458838-20-xxxx  
 EC No.: 231-639-5 Indice No.: 016-020-00-8  
 RTECS: WS5600000  
 TSCA Inventory: listed  
 KE No.: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem.  
 acc. CLP (GHS): H315, H319

## 5 mL total Phosphate 1-45 R4

Chemical: *ammonium heptamolybdate* CAS No.: 12054-85-2  
 Concentration: 1 - <5 % Correlation factor: x 0.58 (= %Mo)  
 Formula: H<sub>24</sub> Mo<sub>7</sub> N<sub>6</sub> O<sub>24</sub>  
 Pseudonym: ammonium molybdate  
 EC No.: 234-722-4  
 RTECS: QA5076000 / QA4900000 MFCD: 00167059  
 TSCA Inventory: listed (CAS 11098-84-3)  
 KE No.: not listed  
 acc. CLP (GHS): not necessary

Chemical: *sulfuric acid* CAS No.: 7664-93-9  
 Concentration: 5 - <15 %  
 Formula: H<sub>2</sub> SO<sub>4</sub>  
 REACH Reg. No.: 01-2119458838-20-xxxx  
 EC No.: 231-639-5 Indice No.: 016-020-00-8  
 RTECS: WS5600000  
 TSCA Inventory: listed  
 KE No.: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem.  
 acc. CLP (GHS): H315, H319

### 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. 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).

#### 4.1.3 After INHALATION of Vapours

After inhalation of foam or vapour fresh air should be inhaled. 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.

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## 4.1.4 After ORAL Intake

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

Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid inhalation of dust. ---

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

After SKIN CONTACT rinse with water for a long time. Apply glucocorticosteroides following inflammatory reactions. 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

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. Use a safety bottle when shaking test tubes.

### 7.2 Conditions for safe storage, including any incompatibilities

The original product package of MACHEREY-NAGEL allows a safe storage.

Storage class (VCI): 5.1B

Water hazard class (DE): 1

### 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.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 20x 27 mg NANOFIX total Phosphate 1-45 R3

Chemical: *L(+)-ascorbic acid*

CAS No.: 50-81-7

#### 20x 35 mg NANOFIX total Phosphate 1-50 R2

Chemical: *sodium peroxodisulfate*

CAS No.: 7775-27-1

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 total Phosphate 1 (tubes)

Chemical: *sulfuric acid*

CAS No.: 7664-93-9

EU value: 0.1 e mg/m<sup>3</sup>

TRGS 900 (DE): 0.1 E mg/m<sup>3</sup>

E/e respirable

Short-term exposure factor: 1 (I), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 0,1 e mg/m<sup>3</sup>

NIOSH: NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); TWA 1 mg/m<sup>3</sup>

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: TWA 1 mg/m<sup>3</sup>

#### 5 mL total Phosphate 1-45 R4

Chemical: *ammonium heptamolybdate*

CAS No.: 12054-85-2

TRGS 900 (DE): 5<sub>Mo</sub> E mg/m<sup>3</sup>

E/e respirable

SUVA(CH) MAK value: 5<sub>Mo</sub> e mg/m<sup>3</sup>

Chemical: *sulfuric acid*

CAS No.: 7664-93-9

EU value: 0.1 e mg/m<sup>3</sup>

TRGS 900 (DE): 0.1 E mg/m<sup>3</sup>

E/e respirable

Short-term exposure factor: 1 (I), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 0,1 e mg/m<sup>3</sup>

NIOSH: NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); TWA 1 mg/m<sup>3</sup>

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: TWA 1 mg/m<sup>3</sup>

### 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.

#### 8.2.1 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, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex 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

Recommended to avoid contamination with these hazards.

#### 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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### 20x 27 mg NANOFIX total Phosphate 1-45 R3

Appearance: solid (lyoph.)	Colour: colourless	Odor: odorless
pH:	5-6	
Solubility in water:	0-25 %	

#### 20x 35 mg NANOFIX total Phosphate 1-50 R2

Appearance: solid (lyoph.)	Colour: colourless	Odor: odorless
pH:	5-7	
Solubility in water:	0-100 %	

#### 1 mL total Phosphate 1 (tubes)

Appearance: liquid	Colour: colourless	Odor: odorless
pH:	0-1	
Specific gravity:	1,05 g/cm <sup>3</sup>	
Solubility in water:	0-100 %	

#### 5 mL total Phosphate 1-45 R4

Appearance: liquid	Colour: slightly yellow	Odor: odorless
pH:	0	
Specific gravity:	1,11 g/cm <sup>3</sup>	
Solubility in water:	0-100 %	

### 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

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## 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. Observe labeled storage temperature. ---

### 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.

#### 20x 27 mg NANOFIX total Phosphate 1-45 R3

Chemical:	<i>L(+)-ascorbic acid</i>	CAS No.: 50-81-7
TSCA Inventory:	listed	
Korea Exist.Chem.Inventory:	KE-01947	
LD50 <sub>orl rat</sub> :	11900 mg/kg	
LD50 <sub>ivn mus</sub> :	518 mg/kg	



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## 20x 35 mg NANOFIX total Phosphate 1-50 R2

Chemical: *sodium peroxodisulfate* CAS No.: 7775-27-1  
 TSCA Inventory: listed California Proposition 65 List: not listed  
 Australia NICNAS: Yes (PEC/18) Canada CEPA 1999: DSL Yes  
 Japan CSCL/PRTR: not listed  
 Japan PDSCL: not listed Japan ISHL: listed ≥1,0%/≥0,1%, Article 57-2 (SDS required)  
 South Korea TCCA: not listed  
 Korea Exist.Chem.Inventory: KE-12369  
 LD50<sub>orl rat</sub>: 902 mg/kg  
 Acute Effects: Cause after oral intake, inhalation of vapours/dust, skin contact, impairments of health when ingested in small quantities.  
 Chronic Effects: May cause sensitization by skin contact, also in repeated contact of small amounts. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## 1 mL total Phosphate 1 (tubes)

Chemical: *sulfuric acid* CAS No.: 7664-93-9  
 TSCA Inventory: listed California Proposition 65 List: not listed  
 ACGIH: 1 ppm  
 Exposure Routes: inhalation, ingestion, skin and/or eye contact  
 Target Organs: Eyes, skin, respiratory system, teeth  
 Symptoms: irritation eyes, skin, nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis; dental erosion; eye, skin burns; dermatitis  
 Australia NICNAS: not listed Canada CEPA 1999: DSL Yes  
 Japan CSCL/PRTR: not listed  
 Japan PDSCL: Deleterious Substance Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)  
 South Korea TCCA: Accident Precaution Chemical Yes  
 Korea Exist.Chem.Inventory: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem.  
 LD50<sub>orl rat</sub>: 2140 mg/kg  
 LC50<sub>ihl mouse</sub>: 320<sub>4h</sub> mg/L  
 LC50<sub>ihl rat</sub>: 510 mg/m<sup>3</sup>  
 TRGS 905 (DE): Kat 4

## 5 mL total Phosphate 1-45 R4

Chemical: *ammonium heptamolybdate* CAS No.: 12054-85-2  
 TSCA Inventory: listed (CAS 11098-84-3)  
 Korea Exist.Chem.Inventory: not listed

Chemical: *sulfuric acid* CAS No.: 7664-93-9  
 TSCA Inventory: listed California Proposition 65 List: not listed  
 ACGIH: 1 ppm  
 Exposure Routes: inhalation, ingestion, skin and/or eye contact  
 Target Organs: Eyes, skin, respiratory system, teeth  
 Symptoms: irritation eyes, skin, nose, throat; pulmonary edema, bronchitis; emphysema; conjunctivitis; stomatis; dental erosion; eye, skin burns; dermatitis  
 Australia NICNAS: not listed Canada CEPA 1999: DSL Yes  
 Japan CSCL/PRTR: not listed  
 Japan PDSCL: Deleterious Substance Japan ISHL: listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)  
 South Korea TCCA: Accident Precaution Chemical Yes  
 Korea Exist.Chem.Inventory: KE-32570, >10% Toxic 97-1-405, Acc. Precaution Chem.  
 LD50<sub>orl rat</sub>: 2140 mg/kg  
 LC50<sub>ihl mouse</sub>: 320<sub>4h</sub> mg/L  
 LC50<sub>ihl rat</sub>: 510 mg/m<sup>3</sup>  
 TRGS 905 (DE): Kat 4

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 20x 27 mg NANOFIX total Phosphate 1-45 R3





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**14.1 UN number:** 3215 **14.2 UN proper shipping name:** Persulphates, inorganic, n.o.s.  
**14.3 Class:** 5.1 **14.4 Packing group:** III  
*Road transport*  
 Classification code: O2  
 Limited Quantity: 5 Kg Tunnel restriction code: E  
 Excepted Quantity: E 1  
*Air transport*  
 PAX: 559 max. weight PAX: 25 Kg  
 CAO: 563 max. weight CAO: 100 Kg  
*Maritime transport*  
 EmS: F-A, S-Q Storage category: B  
 Maritime pollutant (5.2.1.6): P\* (Limited Quantity (LQ) until 5 L/kg per inner package)

**14.5 Environmental hazards**

not necessary, 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

**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**

H272 May intensify fire; oxidizer.  
 H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.

**16.1.2 List of relevant P phrases**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P221 Take any precaution to avoid mixing with combustibles... [deleted 2016]  
 P261sh Avoid breathing dust/vapours.  
 P264W Wash with water thoroughly after handling.  
 P280sh Wear protective gloves/eye protection.  
 P301+312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P330 Rinse mouth.  
 P342+311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 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 DE §§ 4 und 5 MuSchRiV)!  
 An individual package of this product or test kit has a moderate hazardous potential.



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## 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

TRGS 900, German engineering rules governing limits in air at work, updated September 2016

SUVA .CH, Limits in air at work 2009, revised on 01.2009

TRGS 907, German engineering rules governing listing of substances and causes of sensitizations, updated November 2011

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

### Revisions/Updates

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