

# Safety Data Sheet

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

REF: 985037	NANOCOLOR Iron 3	Page: 1/9
Printing date: 01.10.2019	Date of issue: 15.03.2019	

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

### 1.1 Product identifier

REF 985037  
 Product name NANOCOLOR Iron 3

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.

20 x 1 mL Iron 3 (R0)  
 1 x 20x 29 mg NANOFIX Iron 3 R2

### 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

### 2.0 Classification of the complete product



GHS05

Signal word DANGER

Hazard identification	Hazard classes/categories
H314	Skin Corr. 1B

### 2.1 Classification of the substance or mixture

1 mL Iron 3 (R0)



GHS05

Signal word DANGER

Hazard identification	Hazard classes/categories
H314	Skin Corr. 1B

# Safety Data Sheet

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

REF: 985037

NANOCOLOR Iron 3

Page: 2/9

Printing date: 01.10.2019

Date of issue: 15.03.2019

## 20x 29 mg NANOFIX Iron 3 R2

Signal word

Do not need labelling as hazardous

No hazard class

## 2.2 Label elements

According **CLP directive** inner packages must be only labelled with GHS symbol(s) and product identifier(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).

### 1 mL Iron 3 (R0)



GHS05

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.

## 20x 29 mg NANOFIX Iron 3 R2

Do not need labelling as hazardous

Signal word: -

## 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. The property H314 "Causes severe skin burns and eye damage." of some salts is not applicable, because the mixture is buffered to pH >3-4 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.). ---

### 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.

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### Information pertaining to particular risks to the environment

Avoid contact of substance/mixture to 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

#### 1 mL Iron 3 (R0)

# Safety Data Sheet

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

REF: 985037 NANOCOLOR Iron 3 Page: 3/9  
 Printing date: 01.10.2019 Date of issue: 15.03.2019

Chemical: *ammonium acetate* CAS No.: 631-61-8  
 Classification: No criteria for classification or naming of chemical not required.  
 Formula:  $C_2H_7NO_2$   
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119828440-45-xxxx  
 EC No.: 211-162-9  
 RTECS: AF3675000 MFCD: 00013066  
 KE No.: KE-01629  
 Concentration: 1 - <10 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *acetic acid* CAS No.: 64-19-7  
 Classification: H226, Flam. Liq. 3, H314, Skin Corr. 1B  
 Formula:  $C_2H_4O_2$ ;  $CH_3-COOH$   
 TSCA Inventory: listed  
 REACH Reg. No.: 01-2119475328-30-xxxx  
 EC No.: 200-580-7 Indice No.: 607-002-00-6  
 RTECS: AF1225000 MFCD: 00036152  
 KE No.: KE-00013  
 Concentration: 25 - <50 %  
 acc. CLP (GHS): H314, Skin Corr. 1B

**20x 29 mg NANOFIX Iron 3 R2**

Chemical: *L(+)-ascorbic acid* CAS No.: 50-81-7  
 Classification: No criteria for classification or naming of chemical not required.  
 Formula:  $C_6H_8O_6$   
 Pseudonym: vitamin C  
 TSCA Inventory: listed  
 REACH Reg. No.: exempt, Annex IV  
 EC No.: 200-066-2  
 RTECS: C17650000 MFCD: 00064328  
 KE No.: KE-01947  
 Concentration: 90 - <100 %  
 acc. CLP (GHS): The criteria for classification are not fulfilled.

Chemical: *triazine derivat* CAS No.: -  
 Classification: No criteria for classification or naming of chemical not required.  
 TSCA Inventory: listed  
 Concentration: 5 - <20 %  
 acc. CLP (GHS): 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

## 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.

#### 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. ---

# Safety Data Sheet

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

REF: 985037

NANOCOLOR Iron 3

Page: 4/9

Printing date: 01.10.2019

Date of issue: 15.03.2019

- 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**  
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- 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 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 DISTRESSES 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
- 6.3 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 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): 8B  
Water hazard class (DE): 1
- 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.
- 7.3 Specific end use(s)**  
Product for analytical use.

# Safety Data Sheet

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

REF: 985037

NANOCOLOR Iron 3

Page: 5/9

Printing date: 01.10.2019

Date of issue: 15.03.2019

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 1 mL Iron 3 (R0)

Chemical: *ammonium acetate* CAS No.: 631-61-8  
 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

#### Chemical: *acetic acid* CAS No.: 64-19-7

DNEL: [loc, inh] 25 mg/m<sup>3</sup>  
 DNEL = Derived No-Effect Level (for workers)  
 PNEC<sup>(fresh water)</sup>: 3.058 mg/L  
 PNEC = Predicted No Effect Concentration  
 EU value: [TWA] 25 / [STEL] 50 mg/m<sup>3</sup>  
 TRGS 900 (DE): 10 mL/m<sup>3</sup> / 25 mg/m<sup>3</sup>  
 E/e respirable  
 Short-term exposure factor: 2(I), Y  
 skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded  
 SUVA(CH) MAK value: 10 ppm / 25 mg/m<sup>3</sup>  
 NIOSH: [TWA] 10 ppm / 25 mg/m<sup>3</sup>; [STEL] 15 ppm / 37 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] 10 ppm / 25 mg/m<sup>3</sup>

#### 20x 29 mg NANOFIX Iron 3 R2

Chemical: *L(+)-ascorbic acid* CAS No.: 50-81-7  
 Chemical: *triazine derivat* CAS No.: -

### 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

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 or face protection.

#### 8.2.4 Skin protection

Recommended to avoid clothing damage, and 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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### 1 mL Iron 3 (R0)

Appearance: liquid Colour: colourless Odor: acetic  
 pH: 3-4  
 Specific gravity: 1,03 g/cm<sup>3</sup>  
 Solubility in water: 0-100 %

#### 20x 29 mg NANOFIX Iron 3 R2

Appearance: solid Colour: slightly yellow Odor: odorless  
 pH: 5-7

# Safety Data Sheet

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

REF: 985037

NANOCOLOR Iron 3

Page: 6/9

Printing date: 01.10.2019

Date of issue: 15.03.2019

## 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

Strong CORROSIVE, 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. 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.

#### 1 mL Iron 3 (R0)

Chemical:	<i>ammonium acetate</i>	CAS No.:	631-61-8
TSCA Inventory:	listed	California Proposition 65 List:	not listed
Australia NICNAS:	not listed	Canada CEPA 1999:	DSL Yes
Japan CSCL/PRTR:	not listed, Japan PDSCL:		not listed
Japan ISHL:	not listed		
South Korea TCCA:	not listed		
Korea Exist.Chem.Inventory:	KE-01629		
LD50 <sub>orl rat</sub> :	632 mg/kg		

Chemical:	<i>acetic acid</i>	CAS No.:	64-19-7
TSCA Inventory:	listed	California Proposition 65 List:	not listed
Exposure Routes:	inhalation, skin and/or eye contact		
Target Organs:	Eyes, skin, respiratory system, teeth		
Symptoms:	irritation eyes, skin, nose, throat; eye, skin burns; skin sensitization; dental erosion; black skin, hyperkeratosis; conjunctivitis, lacrimation (di		
Australia NICNAS:	not listed	Canada CEPA 1999:	DSL Yes
Japan CSCL/PRTR:	not listed, Japan PDSCL:		not listed
Japan ISHL:	listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)		
South Korea TCCA:	not listed		
Korea Exist.Chem.Inventory:	KE-00013		
LD50 <sub>orl rat</sub> :	3310 mg/kg		
LC50 <sub>inh rat</sub> :	[4h] 8.5-12,7 mg/L		
LD50 <sub>drm rbt</sub> :	1060 mg/kg		
LD50 <sub>oral mouse</sub> :	4960 mg/kg		

#### 20x 29 mg NANOFIX Iron 3 R2

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		

# Safety Data Sheet

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

REF: 985037	NANOCOLOR Iron 3	Page: 7/9
Printing date: 01.10.2019	Date of issue: 15.03.2019	

Chemical: *triazine derivate* CAS No.: -  
TSCA Inventory: listed

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 1 mL Iron 3 (R0)

Chemical: *ammonium acetate* CAS No.: 631-61-8  
Bio Toxicity: 1/4.5/4.8  
LC50<sub>fish/96h</sub>: 238 mg/L  
Water hazard class (DE): 1 WGK No.: n.n.  
Storage class (VCI): 12-13

Chemical: *acetic acid* CAS No.: 64-19-7  
Avoid contact of substance/mixture to environment.  
PNEC(fresh water): 3.058 mg/L  
PNEC = Predicted No Effect Concentration  
LC50<sub>fish/96h</sub>: [4d] 301-1000 mg/L  
EC50<sub>daphnia/48h</sub>: 301-1000 mg/L  
IC50<sub>scenedesmus quadricauda/72h</sub>: 301-1000 mg/L  
Water hazard class (DE): 1 WGK No.: 0093  
Dispersion coefficient<sub>(octanol-water)</sub>: -0,17  
Storage class (VCI): 8 B

#### 20x 29 mg NANOFIX Iron 3 R2

Chemical: *L(+)-ascorbic acid* CAS No.: 50-81-7  
Water hazard class (DE): 1 WGK No.: 0737  
Storage class (VCI): 13  
  
Chemical: *triazine derivate* CAS No.: -  
Storage class (VCI): 12-13

### 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

## SECTION 14: Transport information

14.1. UN number: 3316 14.2. UN proper shipping name: Chemical Kit  
14.3. Class: 9 14.4. Packing group: II  
Road transport  
Classification code: M11 Tunnel restriction code: E  
Limited Quantity: acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation  
Air transport  
PAX: 960 max. weight PAX: 10 KG

# Safety Data Sheet

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

REF: 985037

NANOCOLOR Iron 3

Page: 8/9

Printing date: 01.10.2019

Date of issue: 15.03.2019

CAO: 960 max. weight CAO: 10 KG  
*Maritime transport*  
 EmS: F-A, S-P Storage category: A

Or use **Alternative declaration for transportation:**

UN No.: (see below) class 8 III, **Excepted Quantities** ( $\leq 30 \text{ mL} / \sum \leq 1 \text{ L}$ ) = ADR/ IATA E1

or

**14.1 UN number: 3265 14.2 UN proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (acetic acid mixture)**

**14.3 Class: 8 14.4 Packing group: III**

*Road transport*

Classification code: C3  
 Limited Quantity: 5 L Tunnel restriction code: E  
 Excepted Quantity: E 1

*Air transport*

PAX: 852 max. weight PAX: 5 L  
 CAO: 856 max. weight CAO: 60 L  
*Maritime transport*  
 EmS: F-A, S-B Storage category: A

## 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](http://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

H314 Causes severe skin burns and eye damage.

#### 16.1.2 List of relevant P phrases

P260sh Do not breathe 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.

### 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.



# Safety Data Sheet

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

REF: 985037

NANOCOLOR Iron 3

Page: 9/9

Printing date: 01.10.2019

Date of issue: 15.03.2019

## 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

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

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

### Revisions/Updates

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