

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 918995	NANOCOLOR BOD5 Nutrient mixture PLUS NATH	Page: 1/10
Printing date: 07.07.2025	Date of issue: 02.08.2022	Version: 2.2.3.2

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

### 1.1 Product identifier

REF 918995  
Product name NANOCOLOR BOD5 Nutrient mixture PLUS NATH

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 190 mg BOD<sub>5</sub> Nutrient mixture plus (R1), lyophilized  
10 x 520 mg BOD<sub>5</sub> Nutrient mixture plus (R2), lyophilized

### 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  
Valencienner Str. 11, 52355 Düren, Germany  
Phone: +49 2421 969 0

E-mail: sds@mn-net.com (msds@mn-net.com)

### 1.4 Emergency telephone number

Information not necessary.

You find our current versions of SDS in Internet: <http://www.mn-net.com/SDS>

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product according to Regulation (EC) 1272/2008

Hazard identification	Hazard classes/categories
-----------------------	---------------------------

### 2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

**190 mg BOD<sub>5</sub> Nutrient mixture plus (R1), lyophilized**

Signal word Do not need labelling as hazardous  
-  
No hazard class

**520 mg BOD<sub>5</sub> Nutrient mixture plus (R2), lyophilized**

Signal word Do not need labelling as hazardous  
-  
No hazard class

List of H phrases: see section 16.2

### 2.2 Label elements according regulation (EC) 1272/2008



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# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 918995

NANOCOLOR BOD5 Nutrient mixture PLUS NATH

Page: 2/10

Printing date: 07.07.2025

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## 190 mg BOD<sub>5</sub> Nutrient mixture plus (R1), lyophilized

Do not need labelling as hazardous

Signal word: -

## 520 mg BOD<sub>5</sub> Nutrient mixture plus (R2), lyophilized

Do not need labelling as hazardous

Signal word: -

## Label elements of the complete product

Signal word: -

## 2.3 Other hazards

### Possible hazards from physicochemical properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential.

### Information pertaining to particular risks to human and possible symptoms

### Information pertaining to particular risks to the environment

PBT: not applicable

vPvB: not applicable

### Possible endocrine disrupting effects

no data available

## SECTION 3: Composition / information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 190 mg BOD<sub>5</sub> Nutrient mixture plus (R1), lyophilized

Substance name: *N-allylthiourea*  
CAS No.: 109-57-9

Substance rating: H301, Acute Tox. 3 oral  
Formula: C<sub>4</sub>H<sub>8</sub>N<sub>2</sub>S  
EC No.: 203-683-5  
Concentration: 1 - <10 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

Substance name: *magnesium sulfate*  
CAS No.: 7487-88-9

Substance rating: No criteria for classification or naming of chemical not required.  
Formula: MgSO<sub>4</sub>  
REACH Reg. No.: 01-2119486789-11-xxxx  
EC No.: 231-298-2  
Concentration: 80 - <97 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

#### 520 mg BOD<sub>5</sub> Nutrient mixture plus (R2), lyophilized

Substance name: *ammonium chloride*  
CAS No.: 12125-02-9

Substance rating: H302, Acute Tox. 4 oral, H319, Eye Irrit. 2  
Formula: NH<sub>4</sub>Cl  
Pseudonym (de): Salmiak  
REACH Reg. No.: 01-2119487950-27-xxxx  
EC No.: 231-211-8  
Concentration: 1 - <4 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

Indice No.: 017-014-00-8



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# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 918995	NANOCOLOR BOD5 Nutrient mixture PLUS NATH	Page: 3/10
Printing date: 07.07.2025	Date of issue: 02.08.2022	Version: 2.2.3.2

Substance name: *phosphates (buffer salts)*  
CAS No.: -  
Substance rating: No criteria for classification or naming of chemical not required.  
Formula:  $K/Na\ 1-3\ H\ 2-0\ PO_4$   
Concentration: 75 - <100 %  
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 16.2.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

4.1.1 **After SKIN Contact**  
Not necessary.

4.1.2 **After EYE Contact**  
Not necessary.

4.1.3 **After INHALATION of vapours**  
Not necessary. ---

4.1.4 **After ORAL Intake**  
Not necessary.

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

There are no known delayed symptoms or effects for this product.

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

No additionally recommendations. ---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

5.1.1 **Suitable 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. 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.

5.1.2 **Unsuitable extinguishing media**  
no data available

5.2 **Special hazards arising from the substance or mixture**  
None.

5.3 **Advice for firefighters**  
No, for listed product. Product package burns like paper or plastic.

5.4 **Additional information**  
no data available

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Not necessary.

### 6.2 Environmental precautions

PBT: not applicable  
vPvB: not applicable



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# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 918995

NANOCOLOR BOD5 Nutrient mixture PLUS NATH

Page: 4/10

Printing date: 07.07.2025

Date of issue: 02.08.2022

Version: 2.2.3.2

## 6.3 Methods and material for containment and cleaning up

Clean working area with water. Flush used water into drains.

## 6.4 Reference to other sections

no data available

## 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

Safe storage is guaranteed in the original packaging from MACHEREY-NAGEL. Storage class (German chemical industry): see chapter 12.1

Storage class (VCI): 6.1B

Water hazard class (DE): 3

### 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

#### 190 mg BOD<sub>5</sub> Nutrient mixture plus (R1), lyophilized

Chemical: *magnesium sulfate*

CAS No.: 7487-88-9

DNEL: [inh] 37.6 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 0.68 mg/L

PNEC = Predicted No Effect Concentration

Chemical: *N-allylthiourea*

CAS No.: 109-57-9

#### 520 mg BOD<sub>5</sub> Nutrient mixture plus (R2), lyophilized

Chemical: *ammonium chloride*

CAS No.: 12125-02-9

DNEL: 128.9 derm mg/kg

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 0.25 mg/L

PNEC = Predicted No Effect Concentration

SUVA(CH) MAK value: 3 a mg/m<sup>3</sup>

NIOSH STEL: 20 mg/m<sup>3</sup>

Chemical: *phosphates (buffer salts)*

CAS No.: -

### 8.2 Exposure controls

Not necessary. Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities.

#### 8.2.1 Respiratory protection

Not necessary.

#### 8.2.2 Skin protection / Hand protection

Not necessary.

#### 8.2.3 Eye / Face Protection

Not necessary.

#### 8.2.4 Skin protection

Not necessary.

#### 8.2.5 Personal hygiene

Information not necessary.

#### 8.2.6 Thermal hazards

no data available

# Safety Data Sheet

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REF: 918995

NANOCOLOR BOD5 Nutrient mixture PLUS NATH

Page: 5/10

Printing date: 07.07.2025

Date of issue: 02.08.2022

Version: 2.2.3.2

## 8.3 Limitation and monitoring of environmental exposure

Information not necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### 190 mg BOD<sub>5</sub> Nutrient mixture plus (R1), lyophilized

a) State of aggregation:	solid (lyophilized)
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
l) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K <sub>o/w</sub> ):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available

#### 520 mg BOD<sub>5</sub> Nutrient mixture plus (R2), lyophilized

a) State of aggregation:	solid (lyophilized)
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
l) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K <sub>o/w</sub> ):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available

## 9.2 Other information

### 9.2.1 Information on physical hazard classes

no data available

### 9.2.2 Other safety-related parameters

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.

☐ ☐

no data available

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 918995

Printing date: 07.07.2025

NANOCOLOR BOD5 Nutrient mixture PLUS NATH

Date of issue: 02.08.2022

Page: 6/10

Version: 2.2.3.2

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None

### 10.2 Chemical stability

no known instability.

### 10.3 Possibility of hazardous reactions

None.

### 10.4 Conditions to avoid

Observe the storage temperature printed on it. Not known.

### 10.5 Incompatible materials

Not known.

### 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 the hazard classes according regulation (EC) 1272/2008

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

#### 190 mg BOD<sub>5</sub> Nutrient mixture plus (R1), lyophilized

Chemical: *magnesium sulfate*

CAS No.: 7487-88-9

TSCA Inventory: listed

Korea Exist.Chem.Inventory: KE-22752

Chemical: *N-allylthiourea*

CAS No.: 109-57-9

TSCA Inventory: listed

Korea Exist.Chem.Inventory: KE-29756

LD50 orl rat : 200 mg/kg

#### 520 mg BOD<sub>5</sub> Nutrient mixture plus (R2), lyophilized

Chemical: *ammonium chloride*

CAS No.: 12125-02-9

TSCA Inventory: listed

Japan CSCL/PRTR: not listed, Japan PDSCL: not listed

Japan ISHL: listed ≥1,0%/≥1,0%,

Korea Exist.Chem.Inventory: KE-01645

LD50 orl rat : 1440 mg/kg

LC<sub>50</sub> Low orl rbt : 1000 mg/kg

LC50 ihl rat : 1000 ppm/4h

LD50 orl mus : 1300 mg/kg

Chemical: *phosphates (buffer salts)*

CAS No.: -

TSCA Inventory: all listed

Korea Exist.Chem.Inventory: listed

LD50 orl rat : > 2000 mg/kg

### 11.2 Other hazards

#### Possible endocrine disrupting effects

no data available

#### Other information

no additional data available

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 918995

Printing date: 07.07.2025

NANOCOLOR BOD5 Nutrient mixture PLUS NATH

Date of issue: 02.08.2022

Page: 7/10

Version: 2.2.3.2

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 190 mg BOD<sub>5</sub> Nutrient mixture plus (R1), lyophilized

Substance name: *magnesium sulfate*

CAS-Nr.: 7487-88-9

PNEC (fresh water): 0.68 mg/L

PNEC = Predicted No Effect Concentration = concentration at which no effect on the environment is expected

LC50 pimephales promelas/96h : 680 MgX mg/L

LC50 fish/96h : [4d] 0.68; [48h] 0.72 mg/L

EC50 daphnia/48h : 720 MgX mg/L

EC50 chlorella vulgaris/5d : [18d] 2700 mg/L

Water hazard class (DE): 1

Storage class (VCI): 12-13

Substance name: *N-allylthiourea*

CAS-Nr.: 109-57-9

Water hazard class (DE): 3 WGK No.: 0016

Storage class (VCI): 6.1 B

#### 520 mg BOD<sub>5</sub> Nutrient mixture plus (R2), lyophilized

Substance name: *ammonium chloride*

CAS-Nr.: 12125-02-9

PNEC (fresh water): 0.25 mg/L

PNEC = Predicted No Effect Concentration = concentration at which no effect on the environment is expected

LC50 fish/96h : 42.9 mg/L

EC50 daphnia/48h : 136.6 mg/L

EC50 chlorella vulgaris/5d : EC50/5d: 1300 mg/L

Water hazard class (DE): 1 WGK No.: 0213

Storage class (VCI): 12-13

Substance name: *phosphates (buffer salts)*

CAS-Nr.: -

Water hazard class (DE): 1

Storage class (VCI): 13

### 12.2 Persistence and degradability

### 12.3 Bioaccumulative potential

#### 520 mg BOD<sub>5</sub> Nutrient mixture plus (R2), lyophilized

Substance name: *ammonium chloride*

CAS-Nr.: 12125-02-9

Dispersion coefficient (K<sub>ow</sub>): -4,37

### 12.4 Mobility in soil

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

no data available

### 12.7 Other adverse effects

no additional data available

## SECTION 13: Disposal considerations

Not necessary.

### 13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains.



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according to Regulations REACH 1907/2006/EC

REF: 918995

Printing date: 07.07.2025

NANOCOLOR BOD5 Nutrient mixture PLUS NATH

Date of issue: 02.08.2022

Page: 8/10

Version: 2.2.3.2

## SECTION 14: Transport information

14.1 - 14.4 Not necessary

### 14.5 Environmental hazards

none

### 14.6 Special precautions for user

not necessary

### 14.7 Carriage in bulk by sea in accordance with IMO instruments

Not applicable.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020

Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017

MN leaflet/instructions for use, also at [www.mn-net.com](http://www.mn-net.com)

If necessary, observe other country-specific regulations.

### 15.2 Chemical safety assessment

no data available

## SECTION 16: Other information

### 16.1 Changes compared to the last version

Between versions 2.2.3.2 and 2.2.2.2 following changes were applied: - 1 composition data corrected

### 16.2 List of H and P phrases

#### 16.2.1 List of relevant H phrases

H

Between versions 2.2.3.2 and 2.2.2.2 following changes were applied: - 1 composition data corrected

#### 16.2.2 List of relevant P phrases

### 16.3 Recommended restriction on use

None

### 16.4 Sources of key data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres

SUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)

Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG

Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)

Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP)

Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP)

Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP)

Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)

TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019

Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)

Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG

Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP)

Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP)

Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)

Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP)

### revisions/updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary

2014-04 adjustment according Regulation 487/2013/EU

2016-03 adjustment according Regulation 1221/2015/EU

2017-11 adjustment according the ECHA registration dossier

2022-11 adjustment according Regulation 878/2020/EU



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REF: 918995	NANOCOLOR BOD5 Nutrient mixture PLUS NATH	Page: 9/10
Printing date: 07.07.2025	Date of issue: 02.08.2022	Version: 2.2.3.2

## 16.5 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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## 16.6 Legend / Abbreviations

acc:	according
ADR:	Convention concerning the International Carriage of Dangerous Goods by Road
Act:	acute
BAT:	biological workplace tolerance value
CAO:	Cargo Aircraft Only
Carc:	carcinogen
CAS:	Chemical Abstracts Service
CLP:	Classification, Labelling and Packaging regulation
CMR:	carcinogen, mutagen, reproduction toxic
Corr:	corrosive
COD:	chemical oxygen demand
CSCL:	Chemical Substance Control Law (Jp)
Dam:	damage
DNEL:	Derived No-Effect Level (for workers)
derm:	dermal
dog:	dog
EC10:	Concentration causing a toxic effect in 10% of the test organisms
EC:	European Community
EC-Nr:	Substance number of the EC substance inventory
EmS:	Guide to accident management measures on ships
EU:	European Union
fish:	fish (not specified)
GHS:	Global Harmonized System of Classification and Labeling of Chemicals
gpg:	guinea pig
ICAO:	International Civil Aviation Organization
ihl:	inhaled
IMDG:	International Maritime Dangerous Goods Code
intrav:	intravenous
ipt:	intraperitoneal
ISHL:	Industrial Safety and Health Law (Jp)
LC50:	lethal concentration 50%
LD50:	lethal dose 50%
leuciscus idus:	fish, ide, orfe
MAK:	maximum workplace concentration
Met:	Metall
mus:	mouse
Muta:	mutagen
NIOSH:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynchus mykiss:	fish, rainbow trout
orl:	oral
OSHA:	Occupational Safety and Health Administration
PAX:	transport on passenger planes allowed
PBT:	persistent, bioaccumulating, toxic substance
pH:	pH value
pimephales promelas:	fish, fathead minnow
PNEC:	Predicted No Effect Concentration
PROC 15:	Process category 'for laboratory use'
PRTR:	Law for PRTR and Promotion of Chemical Management (Jp)
PVC:	polyvinyl chloride
quail:	bird, quail
rat:	rat
rbt:	rabbit
RD:	rapidly degradable
RE:	repeated
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
REF:	item number, reference number
Reg.No.:	rRegistration number



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# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 918995	NANOCOLOR BOD5 Nutrient mixture PLUS NATH	Page: 10/10
Printing date: 07.07.2025	Date of issue: 02.08.2022	Version: 2.2.3.2

Repr: harmful to reproduction  
 Resp: respiratory  
 RIP: REACH Implementations Projects  
 scu: sub cutan  
 SDS: safety data sheet  
 Sens: sensitisation  
 STEL: short term exposure limit  
 STOT: Specific Target Organ Toxicity  
 SVHC: Substance of Very High Concern  
 t/a: tons per year  
 TCCA: Toxic Chemicals Control Act (S. Korea)  
 Tox: toxic  
 TSCA: The Toxic Substances Control Act (US)  
 TWA: time weighted average  
 TRGS: technical regulations (DE)  
 vPvB: very persistent, very bioaccumulating substance

## 16.7 Training advice

Regular safety training. 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.