

Safety Data Sheet

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

NANOCOLOR Sulfite 10 Page: 1/11 Printing date: 12.01.2023 Date of issue: 24.10.2022 Version: 2.2.2.4

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

1.1 **Product identifier**

> REF 985089

Product name NANOCOLOR Sulfite 10

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 Sulfite 10 (R0) UFI: N89U-03TG-A20K-1R8N 1 x 5 mL Sulfite 10 (R2) UFI: 9WNU-U3PF-Y20W-Y5HE

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

1.4 **Emergency telephone number**

Lieferant | Supp Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service. Callenstr. 3-5
DE: Gemeinsames Giftinformationszentrum (GGIZ)
99089 Erfurt tel. +49 361 730 730 <a href="https://www.callenstr.com/services/bases/ba 85 Karlsruhe, Germany

You find our current versions of SDS in Internet:

">http://www.mn-net.com/\$D\$>"> 49 721 5606 0 sicherheit@cartroth.de

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

SECTION 2: Hazard identification

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





GHS07

GHS08

DANGER Signal word

Hazard identification Hazard classes/categories

H302 Acute Tox. 4 oral Repr. 1B STOT RE 2 H360FD H373

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

1 mL Sulfite 10 (R0)





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Signal word DANGER

Hazard identification Hazard classes/categories
H360FD Repr. 1B

5 mL Sulfite 10 (R2)





GHS07 GH

011001

Signal word WARNING

Hazard identification Hazard classes/categories

H302 Acute Tox. 4 oral H373 STOT RE 2

List of H phrases: see section 16.2

2.2 Label elements according regulation (EC) 1272/2008

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). 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).

1 mL Sulfite 10 (R0)



GHS08

Signal word: DANGER

H360FD

May damage fertility. May damage the unborn child.

P201, P280sh, P405

Obtain special instructions before use. Wear protective gloves/eye protection. Store locked up.

5 mL Sulfite 10 (R2)





GHS0

GHS08

Signal word: WARNING

Label elements of the complete product





GHS07

GHS08

Signal word: DANGER

H360FD

May damage fertility. May damage the unborn child.

P201, P280sh, P405

Obtain special instructions before use. Wear protective gloves/eye protection. Store locked up.

Software: M2 V 6.0.28.156

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2.3 Other hazards

Possible hazards from physicochemical properties

Information pertaining to particular risks to human and possible symptoms

Cause after oral intake, impairments of health when ingested in small quantities. May damage fertility. May damage the unborn

child.

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

5 mL Sulfite 10 (R2)

Substance name: ethylene glycol CAS No.: ethylene glycol 107-21-1

Substance rating: H302, Acute Tox. 4 oral, H373, STOT RE 2

Formula: C 2 H 6 O 2 Pseudonym (de): Glycol

REACH Reg. No.: 01-2119456816-28-XXXX

EC No.: 203-473-3 Indice No.: 603-027-00-1

Concentration: 80 - <100 % acc. CLP (GHS): H302, Acute Tox. 4 oral, H373, STOT RE 2

Substance name: chemicals/mixture until 1%

CAS No.:

Substance rating: No criteria for classification or naming of chemical not required.

Concentration: 0,1 - <1 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

1 mL Sulfite 10 (R0)

Substance name: boric acid CAS No.: 10043-35-3

Substance rating: H360FD, Repr. 1B Formula: H 3 BO 3

Pseudonym (de): Orthoborsäure, E284 REACH Reg. No.: 01-2119486683-25-0024

SVHC listed: listed (18/06/2010) Cand. Lst. REACH Art59(10)

EC No.: 233-139-2 Indice No.: 005-007-00-2

Concentration: 0,3 - <0,5 % acc. CLP (GHS): H360FD, Repr. 1B

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. 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.



Software: M2 V 6.0.28.156

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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).

After INHALATION of vapours 4.1.3

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

414 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

CMR Effekte:

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

Extinguishing media 5.1

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.

5.1.2 Unsuitable extinguishing media

no data available

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.

Additional information 5.4

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). 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**

> PBT: not applicable not applicable vPvB:

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

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

> Safe storage is guaranteed in the original packaging . Products which are also classified as toxic must be kept under lock and key. Storage class (German chemical industry): see chapter 12.1

Storage class (VCI):



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Water hazard class (DE):

7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage, so that they are not immediately accessible to outside

parties

7.3 Specific end use(s)

Product for analytical use.

SECTION 8: Exposure controls /personal protection

8.1 Control parameters

5 mL Sulfite 10 (R2)

Chemical: ethylene glycol CAS No.: 107-21-1

DNEL: [inh] 35 mg/m³
DNEL = Derived No-Effect Level (for workers)

TRGS 900 (DE): 10 ppm / 26 mg/m³
E/e respirable

SUVA(CH) MAK value: 10 ppm / 26 mg/m³

SH: [Ceiling] 50 ppm
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: none

Chemical: chemicals/mixture until 1% CAS No.: -

1 mL Sulfite 10 (R0)

Chemical: boric acid CAS No.: 10043-35-3

DNEL: [derm] 392 mg/kg bw/day; [inh] 8.3 mg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC (freeh water) 2.9 mg/l

PNEC (fresh water): 2.9 mg/L
PNEC = Predicted No Effected Concentration

TRGS 900 (DE): 0.5 E mg/m³
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: [Bor][MAK] 1,8e/[STEL] 1,8e mg/m³

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

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 Skin protection / 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 / Face 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.

8.2.6 Thermal hazards

no data available

8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

5 mL Sulfite 10 (R2)

a) State of aggregation: liquid b) Colour: colourless c) Odor: organic d) Melting point: no data available e) Boiling point: 117 (39 hPa) °C f) Flammability: no data available 1,8 ... 12,8 Vol% g) Explosive limits (lower / upper): h) Flash point: 116 °C i) Flashing temperature: 410 °C j) Decomposition temperature: no data available k) pH value: 6-8 I) Kinematic viscosity: no data available m) Solubility in water: 0-100 % n) Dispersion coefficient _(o/w): no data available o) Vapour pressure (20°C): no data available p) Specific gravity: 1.11 a/cm³ q) Relative vapour density (air=1): no data available r) Particle size: no data available

1 mL Sulfite 10 (R0)

a) State of aggregation: liquid 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: 8,5 I) Kinematic viscosity: no data available m) Solubility in water: 0-100 % n) Dispersion coefficient (o/w): 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

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required. Properties relevant to substance groups

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.



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CHEREY-NAGE



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10.4 Conditions to avoid

Observe the storage temperature printed on it. No more required.

10.5 Incompatible materials

no additional data available

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.

5 mL Sulfite 10 (R2)

ethylene glycol Chemical: CAS No : 107-21-1 TSCA Inventory: California Proposition 65 List: listed, developmental listed

Korea Exist.Chem.Inventory: KE-13169 LD50 orl rat : 4700 mg/kg 786 mg/kg LC Low orl hmn:

Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. Chronic Effects: May cause damage to organs through prolonged or repeated exposure.

Chemical: chemicals/mixture until 1% CAS No .: -

TSCA Inventory: all listed, <1%

Korea Exist.Chem.Inventory: listed

1 mL Sulfite 10 (R0)

boric acid Chemical: CAS No.: 10043-35-3

TSCA Inventory: listed California Proposition 65 List: not listed Australia NICNAS: not listed Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: PRTR: ≥1,0%B class I, Japan PDSCL: not listed

Japan ISHL: not listed South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-03499 > 3765 mg/kg LD50 orl rat: LC50 ihl rat: 2,12 mg/L/4H

Carcinogenic Effects: May damage fertility. May damage the unborn child.

EU carcinogen: $R_D 1B, R_F 1B$ TRGS 905 (DE): $R_E 2$, $R_F 2$

11.2 Other hazards

Possible endocrine disrupting effects

no data available

Other information

no additional data available

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

5 mL Sulfite 10 (R2)

Chemical: ethylene glycol CAS No.: 107-21-1

LC50 pimephales promelas/96h: [NOEC, 7d] 39.14 g/L LC50 leuciscus idus/96h: [NOEC, 48h] >10 g/L

LC50 fish/96h: 18.5 g/L

EC50 daphnia/48h: 41 / [24h] 74 mg/L Water hazard class (DE): WGK No.: 0105

Dispersion coefficient (o/w): -1.36 Storage class (VCI): 12-13



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CAS No.: -

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Chemical: chemicals/mixture until 1%

Water hazard class (DE): 1 Storage class (VCI): 12-13

1 mL Sulfite 10 (R0)

Chemical: boric acid CAS No.: 10043-35-3

PNEC (fresh water): 2.9 mg/L
PNEC = Predicted No Effected Concentration

 LC50 fish/96h:
 [4d] 79.7 mg/L

 EC50 daphnia/48h:
 91-165 mg/L

 IC50 scenedesmus quadricauda/72h:
 [72h] 52.4 mg/L

 EC10 pseudomonas putita/16h:
 [EC10] 10 mg/L

 Water hazard class (DE):
 1 WGK No.: 0315

Dispersion coefficient (o/w): -1,09 Storage class (VCI): -1,09

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

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

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). Close container tightly.

13.1 Waste treatment methods

Not necessary, see above.

SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations

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

Chemicals Prohibition Ordinance - (DE: ChemVerbotsV), aktualisiert Jan 2017

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

TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017

TRGS 220, National aspects when preparing safety data sheets, Jan 2017

TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017

BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan 2012



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Wasserhaushaltsgesetz - WHG, Section 3 Handling substances hazardous to water, Jul 2009, status: Aug 2016 MN leaflet/instructions for use, also at www.mn-net.com If necessary, observe other country-specific regulations.

15.2 Chemical safety assessment

not necessary for these small amounts

SECTION 16: Other information

16.1 Changes compared to the last version

Between versions 2.2.2.4 and 2.2.2.2 following changes were applied: - 2 substance data corrected

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

Harmful if swallowed.

H360FD May damage fertility. May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

16.2.2 List of relevant P phrases

P201 Obtain special instructions before use. Wear protective gloves/eye protection. P280sh

P405 Store locked up.

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 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

Directive 2004/37/EC on the protection of workers from the risk of carcinogens or mutagens at workSUVA .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)

TRGS 905, German rules of technology for carcinogenic and mutagenic substances, as of March 18, 2016
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)

revisions/updates

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

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

16.5 **Further information**

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16.6 **Legend / Abbreviations**

according

ADR: Convention concerning the International Carriage of Dangerous Goods by Road

Act:

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 oxigen demand

CSCL: Chemical Substance Control Law (Jp)

Dam: damage

Derived No-Effect Level (for workers) DNEL:

derm: dermal 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 Guide to accident management measures on ships EmS:

European Union EU: fish: fish (not spezified)

GHS: Global Harmonized System of Classification and Labeling of Chemicals

guinea pig

gpg: ICAO: International Civil Aviation Organization

ihl. inhaled

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous intraperitonaeal ipt:

İSHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50% LD50: letale dosis 50% leuciscus idus: fisch, ide, orfe MAK: maximum workplace concentration

Met: Metall mus. mouse Muta: mutagen

NIOSH: National Institute for Occupational Safety and Health (US)

Non-rapidly degradable NRD:

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: PROC 15: Predicted No Effected Concentration Process category 'for laboratory use'

PRTR: Law for PRTR and Promotion of Chemical Management (Jp)

PVC: polyvinyl chloride quail: bird, quail rat. rat rabbit rbt:

RD: rapidly degradable

RE:

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

item number, reference number REF:

Reg.No.: rRegistration number Repr: harmful to reproduction

Resp: respiratory

RIP: **REACH Implementations Projects**

sub cutan scu: safety data sheet SDS: Sens: sensitisation



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CHEREY-NAGEI



Safety Data Sheet

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

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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) toxic

Tox: 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.

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