

Safety Data Sheet

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

REF: 985047 NANOCOLOR Nonionic surfactants 15 Page: 1/12 Date of issue: 04.07.2022 Printing date: 12.01.2023 Version: 2.2.3.2

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

1.1 **Product identifier**

REF 985047

Product name NANOCOLOR Nonionic surfactants 15

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 6 mL Nonionic Surfactants 15 (R0) UFI: 4CSU-339C-720P-FTU0

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**

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service mbH + CO KG
DE: Gemeinsames Giftinformationszentrum (GGIZ)
99089 Erfurt tel. +49 361 730 730. <a href="https://www.content.com/htms://www.content.com Schoemperlenstr. 3-5 <a href="http://www.mn-net.com/sps="http://www.m

You find our current versions of SDS in Internet:

sicherheit@carlroth.de

SECTION 2: Hazard identification

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







GHS02 GHS07 GHS08

Signal word	WARNING
Signal Word	WAINING

Hazard identification	Hazard classes/categories	
H226	Flam. Liq. 3	
H302	Acute Tox. 4 oral	
H315	Skin Irrit. 2	
H319	Eye Irrit. 2	
H336	STOT SE 3	
H351	Carc. 2	
H371	STOT SE 2	

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

6 mL Nonionic Surfactants 15 (R0)



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GHS02

GHS07

MADNING

GHS08

Signal Word	WARRING	
Hazard identification	Hazard classes/categories	
H226	Flam. Liq. 3	
H302	Acute Tox. 4 oral	
H315	Skin Irrit. 2	
H319	Eye Irrit. 2	
H336	STOT SE 3	
H351	Carc. 2	
H371	STOT SE 2	

List of H phrases: see section 16.2

Signal word

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** and highly flammable chemicals/mixtures must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2).

6 mL Nonionic Surfactants 15 (R0)







GHS02

GHS07

GHS08

Signal word: WARNING

H351

Suspected of causing cancer.

P201, P280sh

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

Label elements of the complete product







GHS02

GHS07

GHS08

Signal word: WARNING

H351

Suspected of causing cancer.

P201, P280sh

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

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. Flammable properties.

Information pertaining to particular risks to human and possible symptoms

Cause after oral intake, impairments of health when ingested in small quantities. Suspected of causing cancer.

Information pertaining to particular risks to the environment

PBT: not applicable vPvB: not applicable Possible endocrine disrupting effects



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This substance/mixture contains components considered to have endocrinedisrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

6 mL Nonionic Surfactants 15 (R0)

Substance name: *methanol* CAS No.: *methanol* 67-56-1

Substance rating: H225, Flam. Liq. 2, H301, Acute Tox. 3 oral, H311, Acute Tox. 3 derm., H331, Acute Tox. 3 inh.,

H370, STOT SE 1

Formula: CH 4 O, CH 3 OH
Pseudonym (de): Methylalkohol
REACH Reg. No.: 01-2119433307-44-xxxx

EC No.: 200-659-6 Indice No.: 603-001-00-X

Concentration: 2,5 - <10 %

acc. CLP (GHS): H226, Flam. Liq. 3, H302, Acute Tox. 4 oral, H371, STOT SE 2

Substance name: indicator dye(s)

CAS No.:

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

Concentration: 0,01 - <0,1 %

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

Substance name: dichloromethane

CAS No.: 75-09-2

Substance rating: H315, Skin Irrit. 2, H319, Eye Irrit. 2, H336, STOT SE 3, H351, Carc. 2

Formula: CH 2 Cl 2

Pseudonym (de): Methylenchlorid, DCM REACH Reg. No.: 01-2119480404-41-xxxx

EC No.: 200-838-9 Indice No.: 602-004-00-3

Concentration: 20 - <60 %

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2, H336, STOT SE 3, H351, Carc. 2

Substance name: phosphate buffer solution

CAS No.:

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

Formula: K/Na ₁₋₃ H ₂₋₀ PO ₄ • x H ₂ O

Concentration: 5 - <20 %

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

Substance name: water CAS No.: 7732-18-5

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

Formula: H ₂ O
REACH Reg. No.: exempt, Annex IV
EC No.: 231-791-2
Concentration: 10 - <30 %

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.



Software: M2 V 6.0.28.156

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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.

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. ---

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

CMR Effekte: Suspected of causing cancer.

4.3 Indication of any immediate medical attention and special treatment needed

--

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.

5.1.2 Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

WARNING: Flammable (GHS regulation). May form explosive vapour-air mixtures. 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.

5.4 Additional information

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 vPvB: not applicable

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. Not for organic solvents (see section 13).

6.4 Reference to other sections



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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 . Storage class (German chemical industry): see chapter 12.1

Storage class (VCI): Water hazard class (DE):

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

6 mL Nonionic Surfactants 15 (R0)

Chemical: methanol CAS No.: 67-56-1

[derm] 40 mg/kg bw/day; [inh] 260 mg/m³ DNFI · DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): ZU.o IIIg/L PNEC = Predicted No Effected Concentration

EU value: [TWA] 200 ppm / 260 mg/m³ TRGS 900 (DE): 200 ppm / 270 mg/m³

E/e respirable

Short-term exposure factor: 4 (II), H, Y

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

SUVA(CH) MAK value: 200 ppm/ 260 mg/m³ [U/c,b] 30 mg/L SUVA(CH) BAT value: TRGS 903 (DE):

U/c,b 30 mg/L B blood, U urine, a no limitation, b end of exposition or shift

[TWA, skin] 200 ppm / 260 mg/m³ NIOSH:

NIOSH STEL: 250 ppm / 325 mg/m³

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

OSHA: [TWA] 200 ppm / 260 mg/m³

Chemical: indicator dye(s) CAS No .: -

Chemical: dichloromethane CAS No.: 75-09-2

[TWA] 353 / [STEL] 706 mg/m³ EU value:

TRGS 900 (DE): 50 mL/m³ / 180 mg/m³

Short-term exposure factor: 2 (II)

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

SUVA(CH) MAK value: [MAK] 177/[STEL] 353 mg/m3 CO-Hb: 5%; B, b 1 mg/L SUVA(CH) BAT value:

TRGS 903 (DE):

[B/g] 500 μ g/L B blood, U urine, a no limitation, b end of exposition or shift

Occupational Carcinogen List Yes, NTP Report on Carcinogens (RoC) List Yes (Reasonably

anticipated to be a human carcinogen)

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

OSHA: [1910.1052] TWA 25 ppm ST 125 ppm

Chemical: phosphate buffer solution CAS No .: -

Chemical: CAS No.: 7732-18-5

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



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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, for chlorinated carbons consist of viton (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.

liquid (2 phages)

8.2.6 Thermal hazards

no data available

8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

6 mL Nonionic Surfactants 15 (R0)

a) State of aggregation: b) Colour: c) Odor: d) Melting point: e) Boiling point: f) Flammability: g) Explosive limits (lower / upper): h) Flash point: i) Flashing temperature: j) Decomposition temperature:	colored like chloroform no data available
k) pH value: I) Kinematic viscosity: m) Solubility in water: n) Dispersion coefficient (o/w): o) Vapour pressure (20°C): p) Specific gravity: q) Relative vapour density (air=1): r) Particle size:	8 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.

10.4 Conditions to avoid



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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.

6 mL Nonionic Surfactants 15 (R0)

Chemical: methanol CAS No.: 67-56-1 TSCA Inventory: California Proposition 65 List: listed, developmental

ACGIH: 200 ppm / 160 mg/m³

Exposure Routes: inhalation, skin absorption, ingestion, skin and/or eye contact

Target Organs: Eyes, skin, respiratory system, central nervous system, gastrointestinal tract

irritation eyes, skin, upper respiratory system; headache, drowsiness, dizziness, nausea, vomiting; Symptoms:

visual disturbance, optic nerve damage (blindness

Canada CEPA 1999: DSL yes Australia NICNAS:

Japan CSCL/PRTR: PAC yes, Japan PDSCL: Deleterious Substance Japan ISHL: listed ≥0,3%/≥0,1%, Article 57-2 (SDS required)

Accident Precaution Chemical yes South Korea TCCA:

Korea Exist.Chem.Inventory: KE-23193, Toxic 97-1-80

LD50 orl rat: 5628 mg/kg LC_Low inl rat: 64,000 mg/L/4H LC Low orl hmn: 143 mg/kg LC50 ihl rat: >80 mg/L/4H LD50 orl mus: 7300 mg/kg

Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities.

Chronic Effects:

TRGS 905 (DE): RFC

Chemical: indicator dye(s) CAS No .: -

all listed, <1% TSCA Inventory:

Chemical: dichloromethane CAS No.: 75-09-2

TSCA Inventory: California Proposition 65 List: listed, cancer listed inhalation, skin absorption, ingestion, skin and/or eye contact Exposure Routes:

Eyes, skin, cardiovascular system, central nervous system; Cancer Site[in animals: lung, liver, **Target Organs:**

salivary & mammary gland tumors] Symptoms:

irritation eyes, skin; lassitude (weakness, exhaustion), drowsiness, dizziness; numb, tingle limbs; nausea; [potential occupational carcinogen]

Australia NICNAS: not listed Canada CEPA 1999: DSL Yes, Toxic Substances (Schedule 1) Yes

(Item 37.)

Japan CŚCL/PRTR: PAC Yes, PRTR: ≥1,0% class I, Japan PDSCL: not listed Japan ISHL: listed ≥1,0%/≥0,1%, Article 57-1+2 (Labelling&SDS required)

South Korea TCCA: not listed Korea Exist.Chem.Inventory: KE-23893 1600 mg/kg LD50 orl rat: LC_Low orl hmn: 357 mg/kg LC50 ihl mus: 49 mg/L/7H

Carcinogenic Effects: Suspected of causing cancer.

TRGS 905 (DE): K3A (4/5)

Chemical: phosphate buffer solution CAS No .: -

TSCA Inventory: all listed Korea Exist.Chem.Inventory: listed

Chemical: CAS No.: 7732-18-5 water

TSCA Inventory: listed Korea Exist.Chem.Inventory: KE-35400 LD50 orl rat: > 90000 mg/kg



Software: M2 V 6.0.28.156

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11.2 Other hazards

Possible endocrine disrupting effects

This substance/mixture contains components considered to have endocrinedisrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Other information

no additional data available

SECTION 12: Ecological information

12.1 **Toxicity**

Following information is valid for pure substances.

6 mL Nonionic Surfactants 15 (R0)

CAS No.: 67-56-1 Chemical: methanol

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 20.8 mg/L

LC50 daphnia magna/48h: [24h] 23.5 g/L LC50 pimephales promelas/96h: 29.4 g/L 15.4 g/L LC50 fish/96h: EC50 daphnia/48h: >10 g/L

[IC5 8d] 8000 mg/L IC50 scenedesmus quadricauda/72h: EC10 pseudomonas putita/16h [EC5] 6.6 g/L

Water hazard class (DE): WGK No.: 0145

Dispersion coefficient (o/w): -0.77Storage class (VCI): 3

indicator dye(s) CAS No .: -Chemical:

Storage class (VCI):

CAS No.: 75-09-2 Chemical: dichloromethane

LC50 pimephales promelas/96h: 193 mg/L EC50 daphnia/48h: 1682 mg/L

EC50 pseudokirchneriella subcapitata/72h : IC50 96h : > 660 mg/L WGK No.: 0149 Water hazard class (DE):

Dispersion coefficient (o/w): 1.25 Storage class (VCI): 12

Chemical: phosphate buffer solution CAS No.: -

Water hazard class (DE): 12 Storage class (VCI):

Chemical: water CAS No.: 7732-18-5

12.2 Persistence and degradability

not necessary

12.3 Bioaccumulative potential

not necessary

12.4 Mobility in soil

not necessary

12.5 Results of PBT and vPvB assessment

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**

This substance/mixture contains components considered to have endocrinedisrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.



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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). Or collect in solvent waste (waste code number 07 07 04).

13.1 Waste treatment methods

Not necessary, see above.

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:

Road transport ADR

Classification code: M11 Tunnel restriction code: E

Limited Quantity: acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation

Air transport ICAO

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

Or use Alternative declaration for transportation:

UN No.: (see below) class 6.1 III, Excepted Quantities (≤30 mL/∑≤1 L) = ADR/ IATA E1

or

14.1 UN number: 2810 14.2 UN proper shipping name: Toxic liquid, organic, n.o.s. (dichloromethane solution)

F

14.3 Class: 6.1 14.4 Packing group: III

Road transport ADR

Classification code: T1
Limited Quantity: 5 L Tunnel restriction code:

Excepted Quantity: E 1

Air transport ICAO

Limited Quantity: LQ 7
Excepted Quantity: E 1

PAX: 655 max. weight PAX: 60 L CAO: 663 max. weight CAO: 220 L

Maritime transport IMDG

EmS: F-A, S-A 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

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

Wasserhaushaltsgesetz - WHG, Section 3 Handling substances hazardous to water, Jul 2009, status: Aug 2016

TRGS 561, Activities involving carcinogenic metals and their compounds, Oct 2017

MN leaflet/instructions for use, also at www.mn-net.com

If necessary, observe other country-specific regulations.



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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 2.2.3.2 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

Flammable liquid and vapour. H226 H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. May cause damage to organs. H371

16.2.2 List of relevant P phrases

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

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/EG to technical and scientific progress Text (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

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 oxigen 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 spezified)

GHS: Global Harmonized System of Classification and Labeling of Chemicals

GHS: Global Harmoni gpg: guinea pig

gpg: guinea pig ICAO: International Civil Aviation Organization

ihl: inhaled

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous ipt: intraperitonaeal

ISHL: 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)

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 Effected 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 Repr: harmful to reproduction

Resp: respiratory

RIP: REACH Implementations Projects

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



Software: M2 V 6.0.28.156

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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) Tox: TSCA: toxic

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.