CHEREY-NAGE



Safety Data Sheet

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

REF: 931014 VISOCOLOR ECO Carbonate hardness Page: 1/11 Printing date: 22.11.2022 Date of issue: 19.04.2022 Version: 2.2.2.2

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

1.1 **Product identifier**

REF 931014

no data available VISOCOLOR ECO Carbonate hardness REACH Registration number(s): see SECTION 3.1/3.2 or

A registration number for the substance(s) does not exist because the annual tonnage does not require registration or

the substance or its use is excluded from registration.

1 x 7 mL CH-1 UFI: 65PU-C3RN-W20D-Y68M

2 x 30 mL CH-2

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 sicherheit@carlroth.de

You find our current versions of SDS in Internet:

SECTION 2: Hazard identification

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



GHS02

DANGER Signal word

Hazard identification Hazard classes/categories

H225 Flam. Liq. 2

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

7 mL CH-1



Signal word **DANGER**

Hazard identification Hazard classes/categories

H225 Flam. Liq. 2



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30 mL CH-2

Do not need labelling as hazardous

Signal word

No hazard class

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). 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).

7 mL CH-1



Signal word: DANGER

30 mL CH-2

Do not need labelling as hazardous

Signal word: -

Label elements of the complete product



Signal word: DANGER

2.3 Other hazards

Possible hazards from physicochemical properties

Flammable properties.

Information pertaining to particular risks to human and possible symptoms

Information pertaining to particular risks to the environment

Possible endocrine disrupting effects

no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

7 mL CH-1

Substance name: *ethanol* CAS No.: *ethanol* 64-17-5

(denatured with 1% 2-butanone / 1% 2-propanol)

Substance rating: H225, Flam. Liq. 2
Formula: C 2 H 6 O; C 2 H 5 OH
Pseudonym (de): Äthylalkohol, vergällter Spiritus

REACH Reg. No.: 01-2119457610-43-xxxx

EC No.: 200-578-6 Indice No.: 603-002-00-5

Concentration: 55 - <75 % acc. CLP (GHS): H225, Flam. Liq. 2



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Substance name: indicator dye(s)

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.

30 mL CH-2

Substance name: hydrochloric acid
CAS No.: hydrochloric acid
7647-01-0

Substance rating: H290, Met. Corr. 1, H314, Skin Corr. 1A, H331, Acute Tox. 3 inh.

The criteria for classification are not fulfilled

Formula: HCI•H 2 O

Pseudonym (de): Chlorwasserstoffsäure REACH Reg. No.: 01-2119484862-27-xxxx

EC No.: 231-595-7 Indice No.: 017-002-01-X

Concentration: 0,1 - <1 % acc. CLP (GHS): The criteria fo

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.

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

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

DANGER: Highly flammable (GHS regulation). Forms explosive vapour-air mixtures. Formation of hazardous and caustic vapour-air mixtures possible.

5.3 Advice for firefighters

Product package burns like paper or plastic.



Software: M2 V 6.0.20.60

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5.4 Additional information

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Regular staff training is necessary.

6.2 **Environmental precautions**

not necessary

6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. 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.

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): 2

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)

7.2

Product for analytical use.

SECTION 8: Exposure controls /personal protection

8.1 **Control parameters**

7 mL CH-1

CAS No. 64-17-5 Chemical: ethanol

DNEL: [derm] 343 mg/kg; [inh] 950 mg/m³ DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): U.96 mg/L PNEC = Predicted No Effected Concentration

200 mL/m3 / 380 mg/m3 TRGS 900 (DE):

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

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

500 ppm / 960 mg/m³ SUVA(CH) MAK value:

NIOSH:

[TWA] 1000 ppm / 1900 mg/m³ rage to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period [TWA] Time-weighted aver

OSHA: [TWA] 1000 ppm / 1900 mg/m³

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

30 mL CH-2

Chemical: CAS No.: 7647-01-0 hydrochloric acid

[inh] 8 mg/m³ DNFI · DNEL = Derived No-Effect Level (for workers) $\begin{array}{ccc} \text{PNEC} & \text{(fresh water)} : & 36 \ \mu\text{g/L} \\ \text{PNEC} = \text{Predicted No Effected Concentration} \end{array}$

[TWA] 5 ppm / 8 mg/m³; [STEL] 10 ppm/ 15 mg/m³ EU value:

2 mL/m³ / 3 mg/m³ TRGS 900 (DE): E/e respirable

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

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

2 ppm / 3* mg/m³ SUVA(CH) MAK value: [C] 5 ppm / 7 mg/m³ NIOSH:



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

OSHA:

mg/m³

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.

List of highly hazardous chemicals, toxics and reactives Yes (TQ = 5000 lbs) n/a; TWA 5 ppm / 7

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

Not necessary.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

7 mL CH-1

a) State of aggregation:

b) Colour: colourless c) Odor: red

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:

I) Kinematic viscosity: no data available

m) Solubility in water: no data available

n) Dispersion coefficient (o/w): no data available o) Vapour pressure (20°C): no data available

p) Specific gravity: 0,88 g/cm³

q) Relative vapour density (air=1): no data available r) Particle size: no data available

30 mL CH-2

a) State of aggregation: b) Colour: colourless c) Odor: red

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: 1-2

I) Kinematic viscosity: no data available



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> m) Solubility in water: 0-100 % no data available n) Dispersion coefficient (o/w): o) Vapour pressure (20°C): no data available p) Specific gravity: 1,00 g/cm3 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

Substances are highly volatile and form flammable gas-air mixtures.

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

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.

7 mL CH-1

Chemical: ethanol CAS No.: 64-17-5

California Proposition 65 List: not listed TSCA Inventory: listed

ACGIH: 1000 ppm

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

Target Organs: Eyes, skin, respiratory system, central nervous system, liver, blood, reproductive system

Symptoms: irritation eyes, skin, nose; headache, drowsiness, lassitude (weakness, exhaustion), narcosis; cough;

liver damage; anemia; reproductive, teratogenic

Australia NICNAS: not listed Canada CEPA 1999: DSL yes

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

Japan ISHL: listed ≥0,1%/≥0,1%, Article 57-2 (SDS required) South Korea TCCA: not listed

Korea Exist.Chem.Inventory: KE-13217 LD50 orl rat : 6200 mg/kg 21,900 mg/L LC_Low ihl gpg: 1400 mg/kg LC_Low orl hmn: 123,4 mg/L/4H LC50 ihl mus: LC50 ihl rat: 115,9-133,8 mg/L/4H LD50 orl mus: 3450 mg/kg

TRGS 905 (DE): K5, M5, R F C

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

TSCA Inventory: all listed, <1%



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30 mL CH-2

hydrochloric acid CAS No.: 7647-01-0 Chemical:

California Proposition 65 List: not listed TSCA Inventory: listed **Exposure Routes:** inhalation, ingestion (solution), skin and/or eye contact

Target Organs: Eyes, skin, respiratory system

Symptoms: irritation nose, throat, larynx; cough, choking; dermatitis; solution: eye, skin burns; liquid: frostbite; in

animals: laryngeal spasm; pulmonary ede

Australia NICNAS: Canada CEPA 1999: DSL Yes not listed

not listed, Japan PDSCL: Deleterious Substance Japan CSCL/PRTR: Japan ISHL: listed ≥0,2%/≥0,1%, Article 57-2 (SDS required)

South Korea TCCA: Accident Precaution Chemical Yes

Korea Exist.Chem.Inventory: KE-20189, >10% Toxic 97-1-203, Acc. Precaution Chem.

LD50 orl rat: 900 mg/kg

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.

7 mL CH-1

CAS No.: 64-17-5 Chemical: ethanol

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 0.96 mg/L

LC50 daphnia magna/48h:

>100 mg/L 13400 - 15100 mg/L LC50 pimephales promelas/96h [48h] 8140 mg/L LC50 leuciscus idus/96h

LC50 fish/96h: 13 g/L 9.3-14.2 g/L EC50 daphnia/48h: IC50 scenedesmus quadricauda/72h: [7d] 5000 mg/L EC10 pseudomonas putita/16h [EC5] 6500 mg/L Water hazard class (DE): WGK No.: 0096

Dispersion coefficient (o/w): -0,31 Storage class (VCI):

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

Storage class (VCI): 12-13

30 mL CH-2

Chemical: hvdrochloric acid CAS No.: 7647-01-0

PNEC (fresh water):
PNEC = Predicted No Effected Concentration 36 µg/L

LC50 fish/96h: 24.6 mg/L EC50 daphnia/48h: 0.492 mg/L

EC50 pseudokirchneriella subcapitata/72h: 0.78 mg/L Water hazard class (DE): 1 WC WGK No.: 0238

Storage class (VCI): 8 B

12.2 Persistence and degradability

not necessary

12.3 Bioaccumulative potential

not necessary

12.4 Mobility in soil

not necessary



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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).

13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.

SECTION 14: Transport information

14.1. UN number: 3316

14.2. UN proper shipping name: Chemical Kit 14.3. Class: 14.4. Packing group:

Road transport ADR

Tunnel restriction code: Classification code: M11

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

Air transport ICAO

PAX: 960 max. weight PAX: CAO: 960 max. weight CAO: 10 KG

Maritime transport IMDG

EmS: F-A, S-P Storage category:

Or use Alternative declaration for transportation:

UN 1993 class 3 II, Excepted Quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2

1993 14.2 UN proper shipping name: Flammable liquid, n.o.s. (ethanol mixture)

14.1 UN number:14.3 Class: 14.4 Packing group:

Road transport ADR Classification code:

Limited Quantity: Tunnel restriction code: 1 L Ε Special instructions: 640C **Excepted Quantity:**

Air transport ICAO

Limited Quantity: LQ4 **Excepted Quantity:** E 2

PAX: 353 max. weight PAX: 5 I CAO: max. weight CAO: 364

Maritime transport IMDG

F-E. S-E Storage category: В

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

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



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

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

in preparation

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

Highly flammable liquid and vapour.

16.2.2 List of relevant P phrases

16.3 Recommended restriction on use

Only for professional user.

An individual package of this product or test kit has a moderate hazardous potential.

16.4 Sources of key data

KÜHN, BIRETT leaflets on dangerous working materials

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

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

Regulation 790/2009/EU Adaptation of the CLP Regulation 1272/2008/EU to technical and scientific progress

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE PREPARATION OF SAFETY DATA SHEET

Regulation 487/2013/EU, 4. Adaptation of the CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

Regulation 1480/2018/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

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

Regulation 878/2020/EU

Regulation 849/2021/EU, 4. Adaptation of the CLP regulation to technical and scientific progress

Revisions/Updates

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

2014-04 Adjustment of Regulation 487/2013/EU

2016-03 Adjustment of Regulation 1221/2015/EU

2017-08 Adaptation of the new ethanol denaturation 2016/1867/EU

2017-11 adaptation of the ECHA registration dossier 2022-11 Adjustment of Regulation 878/2020/EU

16.5 **Further information**

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16.6 Legend / Abbreviations

according acc:

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

Act:

BAT: biological workplace tolerance value

CAO: Cargo Aircraft Only Carc: carcinogen

Chemical Abstracts Service CAS:

Classification, Labelling and Packaging regulation CLP:

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive



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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

gpg: guinea pig ICAO: Internation

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

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 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)

TSCA: The Toxic Substances Control Act (US)
TWA: time weighted average
TRGS: technical regulations (DE)

vPvB: very persistent, very bioaccumulating substance



Software: M2 V 6.0.20.60

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Safety Data Sheet

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

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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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