

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Universal Fungicide 542
Universal-Desinfektionsmittel 542

Revision date : 29.09.2022

Print date : 29.09.2022

Version (Revision) : 6.0.0 (5.0.1)

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

1.1 Product identifier

Universal Fungicide 542
Universal-Desinfektionsmittel 542

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Products Category [PC]

PC 0.67 - Disinfectant

Uses advised against

There are no information about relevant identified uses of the product according to the Regulation (EC) No. 1907/2006 (REACH-Regulation), which are advised against. For using the product observe the information in the Technical data sheet of the product.

1.3 Details of the supplier of the safety data sheet

Supplier

Brillux GmbH & Co KG
www.brillux.de

Street : Weseler Straße 401

Postal code/City : D - 48163 Münster

Telephone : +49 (0)251-7188-0

Telefax : +49 (0)251-7188-280

Information contact :

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.):
(Giftinformationszentrum-Nord, Göttingen, consultation in german or english language)
Telephone: +49 (0)551-19240.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.

Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Aquatic Acute 1 ; H400 - Hazardous to the aquatic environment : Acute 1 ; Very toxic to aquatic life.

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Corrosion (GHS05) · Environment (GHS09)

Signal word

Danger

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Hazard components for labelling

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1

Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P260 Do not breathe vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P310 Immediately call a POISON CENTER or a doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P391 Collect spillage.
P501 Dispose of contents/container to approved disposal company or local collection.

2.3 Other hazards

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605. The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

Biocide solution based on water, additives and preservatives.

Hazardous ingredients

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYLDIMETHYL, CHLORIDES ; REACH No. : 01-2119970550-39 ; EC No. : 270-325-2; CAS No. : 68424-85-1

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410 (M Chronic=1) • (M Acute=10)

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing. If unconscious no administration by mouth, storage in recovery position and seek medical advice. If medical advice is needed, have product container or label at hand.

Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration.

In case of skin contact

Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Do NOT use solvents or thinners. In case of skin reactions, consult a physician.

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After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical advice if complaint continues.

Following ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

This product is not flammable. In case of a fire extinguish surroundings as indicated.

Unsuitable extinguishing media

None known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. In case of fire following gases may be formed: nitrogen oxides (NO_x), carbon monoxide (CO), hydrogen chloride (HCl).

5.3 Advice for firefighters

Special protective equipment for firefighters

When extinguishing fires, use breathing apparatus with an independent source of air.

5.4 Additional information

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

The product produced in combination with water slippery surfaces. Refer to protective measures listed in sections 7 and 8. Keep no protective persons away, personal should wear protective clothings. Avoid contact with eyes and skin.

6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomite, acid-binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Disposing of contaminated material as waste after section 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

You find information about the safety equipment of persons in the section 8, information about the refuse disposal in section 13.

SECTION 7: Handling and storage

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7.1 Precautions for safe handling

Protective measures

Before using the product do not open the packaging. Using a suitable safety equipment (see section 8). Following legal protection and safety regulations. Handle and open container with care. Avoid contact with skin and eyes. Ensure a good ventilation in room and working area. Read label before use.

Measures to prevent fire

This product is not flammable. Cool endangered containers with water.

Advices on general occupational hygiene

While working do not eat, drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Immediately remove all contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly in a dry, cool and good ventilated place. Do not store the product in lounge room. Keep only in the original container. Corrosive to metals. Keep out of the reach of children.

Hints on joint storage

Store away from foodstuffs. Do not store together with incompatible materials (oxidising agent).

Storage class (TRGS 510) : 12

Further information on storage conditions

Keep container tightly sealed. Store at 5°-35°C. Containers should be kept dry and sealed. Offering protection against frost.

7.3 Specific end use(s)

For using the product observe the information in the Technical data sheet of the product.

Industrial sector specific solutions

GISCODE : Product code in accordance with GISBAU (hazardous materials information system of the German professional associations of the building and construction industry) for colours and varnishes (GISCODE): GD40

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Observe data available of section 7.

Personal protection equipment

Eye/face protection

Use protection glasses in case of spattering.

Skin protection

Hand protection

At use as agreed a protective gloves from nitrile rubber, tested according to EN 374, with a material thickness 0,38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > = 8 h.

By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should be replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

Body protection

Using work protective clothing, which are completely closed.

Respiratory protection

Breathing protection equipment is not required in adequately ventilated places. Do not inhale the vapour.

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General information

Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Ensure a good ventilation in room and working area.

Environmental exposure controls

The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : conformable to product designation.

Odour

characteristic

Safety characteristics

Melting point/freezing point :	(1013 hPa)		No data available
Initial boiling point and boiling range :	(1013 hPa)	>	100 °C
Decomposition temperature :	(1013 hPa)		No data available
Flash point :			not applicable
Auto-ignition temperature :			not applicable
Lower explosion limit :			not applicable
Upper explosion limit :			not applicable
Vapour pressure :	(50 °C)		No data available
Density :	(20 °C)	approx.	1 g/cm ³
Solvent separation test :	(20 °C)		not applicable
Water solubility :	(20 °C)		mixable
pH :		approx.	7
log P O/W :			No data available
Flow time :	(20 °C)		No data available
Viscosity :	(20 °C)		No data available
Kinematic viscosity :	(40 °C)		No data available
Relative vapour density :	(20 °C)		No data available
Flammable liquids :	The product is not ignitable.		
Particle Characteristics :	not applicable		

9.2 Other information

Other physical and chemical data have not been determined.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

No dangerous reactions are known if stored and handled the product correctly.

10.4 Conditions to avoid

Keep away from frost, heat and direct sunlight.

10.5 Incompatible materials

No dangerous reaction known. Incompatible materials: Oxidizing agents and inorganic substances.

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10.6 Hazardous decomposition products

No dangerous decomposition products are known if stored and handled correctly.

10.7 Additional information

Corrosive to metals.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Acute toxicity:

- Acute oral toxicity: No data available;
- Acute dermal toxicity: No data available;
- Acute inhalation toxicity: No data available.

Acute oral toxicity

Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	10000 mg/kg
Parameter :	LD50 (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYL DIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)
Exposure route :	Oral
Species :	Rat
Effective dose :	795 mg/kg

Acute dermal toxicity

Parameter :	ATEmix calculated
Exposure route :	Dermal
Effective dose :	not relevant

Acute inhalation toxicity

Parameter :	ATEmix calculated
Exposure route :	Inhalation (vapour)
Effective dose :	not relevant
Parameter :	ATEmix calculated (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYL DIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)
Exposure route :	Inhalation
Effective dose :	> 5000 mg/kg

Corrosion

Irritation:

Causes severe skin burns and eye damage.

Respiratory or skin sensitisation

Sensitization: The product does not cause any skin and respiratory tract sensitization.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as human germ cell mutagenic, carcinogenic or human reproductive toxic (CMR effects).

STOT-single exposure

No risk expected.

STOT-repeated exposure

No risk expected.

Aspiration hazard

No risk expected.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605.

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Other adverse effects

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regulation), listed in sections 2 and 3.

At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and the information submitted to us.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)

Species : Oncorhynchus mykiss (Rainbow trout)

Effective dose : 0,85 mg/l

Exposure time : 96 h

Acute (short-term) toxicity to crustacea

Parameter : EC50 (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)

Species : Daphnia magna (Big water flea)

Effective dose : 0,016 mg/l

Exposure time : 48 h

Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)

Species : Daphnia

Effective dose : 0,025 mg/l

Exposure time : 21 D

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16- ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)

Species : Selenastrum capricornutum

Effective dose : 0,02 mg/l

Exposure time : 72 h

12.2 Persistence and degradability

These are not data available about the potential of the product concerning his persistency and degradability.

12.3 Bioaccumulative potential

These are not data available about the bio accumulation potential of the product.

12.4 Mobility in soil

These are not datas available about the potential of the product concerning his mobility in the ground. A penetrating into soil, waters and sewage system should be prevented.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605.

12.7 Other adverse effects

Very toxic to aquatic life. May cause long-term adverse effects in the aquatic environment.

12.8 Additional ecotoxicological information

Avoid exposing into ground, waterways and drainage.

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The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Dispose of contents/container to approved disposal company or local collection according to the local regulations. Packaging with not dry uped residues have to droped at official collecting sites. Packaging with dry uped residues can be disposed together with household garbage or building site garbage. Do not empty into waters or drains.

Waste codes/waste designations according to EWC/AVV

Disposal-definition No. (EWC-Code): 07 04 99.

After intended use

Only empty packaging can be transfered to recycling. Uncleaned packaging must be disposed of in the same manner as the medium.

SECTION 14: Transport information

14.1 UN number

UN 3082

14.2 UN proper shipping name

Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES)

Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES)

Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 9
Classification code : M6
Hazard identification number (Kemler No.) : 90
Tunnel restriction code : -
Special provisions : LQ 5 I · E 1 · ADR : - (SP 375 <= 5 l/kg)
Hazard label(s) : 9 / N

Sea transport (IMDG)

Class(es) : 9
EmS-No. : F-A / S-F
Special provisions : LQ 5 I · E 1 · IMDG : - (SP 2.10.2.7 <= 5 l/kg)
Hazard label(s) : 9 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 9
Special provisions : E 1 · IATA : - (SP A197 <= 5 l/kg)
Hazard label(s) : 9 / N

14.4 Packing group

III

14.5 Environmental hazards

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Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant because the product in type of delivery does not transport in bulks according to the International Maritime Organization (IMO) instruments.

14.8 Additional information

The product when carried in packaging of max. 5 l or 5 kg, are not subject to any other provisions of ADR according to the amendment 375.
According to the transport regulations the product is labeling with the label 9 as also with the symbol "Fish and tree" and in packages > 5 ltr or > 5 kg.

SECTION 15: Regulatory information

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

EU legislation

Other regulations (EU)

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

The product is not subject to the EU guideline 2004/42/EC about the limitation of the issues of brief organic connections due to the use of organic solvents in certain colours and varnishes.

Regulation (EU) No 528/2012 (Biocidal products)

The product is a biocidal product of the product type 2 (disinfectants).
Registration number of Germany: N-47540.

National regulations

Water hazard class

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

Additional information

The product is not classified as a solid substance according to the criteria of the Penetrometer test (ADR, part 2, section 2.3.4) and also fulfils not the criteria for solid substances according to the TRwS 779 number 2.1.1.
Maternity regulations and Young Persons Employment Act are to take into account.

15.2 Chemical Safety Assessment

A chemical safety assessments was not carried out.

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 15. Water hazard class · 15. Störfallverordnung - For substances contained in the product

16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route)
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany) AOX: Adsorbable Organic halogen compounds
ATEmix: Calculated acute toxicity estimate of mixture
BCF: Bio-Concentration Factor
CAS: Chemical Abstract Service
CLP: Classification, Labelling and Packaging
CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction

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CSR: Chemical Safety Report
DNEL: Derived No Effect Level
EC: European Commission
EC50: Effective Concentration 50%
ECHA: European Chemical Agency
EEC: European Economic Community
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
EWC: European Waste Catalogue
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IC50: Inhibition Concentration 50%
IMDG Code: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
LC50: Lethal concentration 50%
LD50: Lethal Dose 50%
LOAEL: Lowest Observed Adverse Effect Level
LOEL: Lowest observable effect level
MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG)
MARPOL: Convention for the Prevention of Marine Pollution from Ships
MVZ: molar ratio
n.a.: Not applicable
n.d.: Not determined
n.r.: Not relevant
NLP: No Longer Polymers
NOAEC: No Observed Adverse Effect Concentration
NOAEL: No Observed Adverse Effect Level
NOEC: No Observed Effect Concentration
NOEL: No Observed Effect Level
OEL: Occupational Exposure Limit
PBT: Persistent, bioaccumulative, toxic
PNEC: Predicted No Effect Concentration
RCP: Reciprocal calculation procedure
REACH: Registration, Evaluation and Authorization of Chemical
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)
STEL: Short-term Exposure Limit
SVHC: Substance of Very High Concern
TLV - TWA: Threshold Limit Value - Time Weighted Average
VOC: Volatile Organic Compounds
vPvB: Very persistent, very bioaccumulative.

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation).

16.5 Relevant H- and EUH-phrases (Number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

16.6 Training advice

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None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
