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

#### 1.1 Product identifier

MD 555 cleaner Special cleaner for suction system Unique Formula Identifier : 3UYT-6YW2-6G0T-V1WT

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

#### **Relevant identified uses**

MD 555 cleaner is a non-foaming special cleaner for dental suction systems including drainage lines. **Products Category [PC]** 

PC 35 - Washing and cleaning products

#### **Uses advised against**

None, if handled according to order.

#### Remark

The product is intended for professional use.

#### 1.3 Details of the supplier of the safety data sheet

#### Supplier

orochemie GmbH + Co. KG

Street : Max-Planck-Straße 27

Postal code/City: 70806 Kornwestheim

Telephone : +49 7154 1308-0

Telefax : +49 7154 1308-40

**Information contact :** DÜRR DENTAL SE, Höpfigheimer Str. 17, 74321 Bietigheim-Bissingen, Germany Tel: +49 7142 705-0, Fax: +49 7142 705-500, info@duerrdental.com in Great Britain/Ireland:

DÜRR DENTAL [Products] UK Ltd., 14 Linnell Way - Telford Way Industrial Estate, Kettering Northants NN16 8PS, United Kingdom, info@duerruk.com

#### **1.4 Emergency telephone number** INT: +49 6132 84463 (24 h/7 d)

INT: +49 6132 84463 (24 n/7 d)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

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

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation. Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation. **Classification procedure** 

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP].

#### 2.2 Label elements

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



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| Hazard statements   |  |
|---------------------|--|
| H315                | Causes skin irritation.  |
| H319                | Causes serious eye irritation.   |
| Precautionary state | nents  |
| P280                | Wear protective gloves and eye/face protection.  |
| P333+P313           | If skin irritation or rash occurs: Get medical advice/attention.   |
| P305+P351+P338      | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P403+P233           | Store in a well-ventilated place. Keep container tightly closed.   |
| P501                | Dispose of contents/container to hazardous or special waste collection point.  |

#### 2.3 Other hazards

The mixture does not contain any substances that have endocrine disrupting properties. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Description

MD 555 contains organic and inorganic acids, foam-free surfactants, dyes and auxiliary agents in aqueous solution. **Hazardous ingredients** 

#### 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**

Remove contaminated, saturated clothing immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

Wash with plenty of water. When in doubt or if symptoms are observed, get medical advice.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### **Following ingestion**

If swallowed, immediately drink: Water Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Call a physician immediately.

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

Causes serious eye irritation. Causes skin irritation.

# 4.3 Indication of any immediate medical attention and special treatment needed None

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#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO2) Extinguishing powder Water spray jet Water mist The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

## Unsuitable extinguishing media

Full water jet

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

#### Hazardous combustion products None known.

## 5.3 Advice for firefighters

Adapt protective equipment to surrounding fire.

#### Special protective equipment for firefighters

Adapt protective equipment to surrounding fire.

#### **SECTION 6: Accidental release measures**

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

Use personal protection equipment. See protective measures under point 7 and 8.

#### For non-emergency personnel

Use personal protection equipment. See protective measures under point 7 and 8.

#### For emergency responders

#### Personal protection equipment

See protective measures under point 7 and 8.

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### 6.3 Methods and material for containment and cleaning up

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

#### Other information

Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4 Reference to other sections

None

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Keep/Store only in original container. Please note safety instructions and directions for use on the drum. Handle and open container with care. Provide adequate ventilation. Do not breathe vapour/aerosol.

#### **Protective measures**

#### Measures to prevent fire

Usual measures for fire prevention. When using do not smoke.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed and in a well-ventilated place.

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#### Hints on joint storage

Store the foodstuffs separately.

#### 7.3 Specific end use(s)

None

#### SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

| control parameters                     |                        |
|--|------------------------|
| Occupational exposure lim              | it values              |
| PHOSPHORIC ACID ; CAS No. : 7664-3     | 38-2                   |
| Limit value type (country of origin) : | . ,                    |
| Limit value :                          | 2 mg/m <sup>3</sup>    |
| Version :                              | 20.06.2019             |
| Limit value type (country of origin) : | . ,                    |
| Limit value :                          | 1 mg/m <sup>3</sup>    |
| Version :                              | 20.06.2019             |
| Limit value type (country of origin) : |                        |
| Limit value :                          | 2 mg/m <sup>3</sup>    |
| Version :                              |                        |
| Limit value type (country of origin) : | TLV/TWA ( EC )         |
| Limit value :                          | 1 mg/m <sup>3</sup>    |
| Version :                              |                        |
| Limit value type (country of origin) : |                        |
| Limit value :                          | 2 mg/m <sup>3</sup>    |
| Version :                              |                        |
| Limit value type (country of origin) : |                        |
| Limit value :                          | 1 mg/m <sup>3</sup>    |
| Version :                              |                        |
| DNEL-/PNEC-values                      |                        |
| There are no data available on the p   | preparation itself.    |
| DNEL/DMEL                              |                        |
| PHOSPHORIC ACID ; CAS No. : 7664       | -38-2                  |
| Limit value type :                     | DNEL Consumer (local)  |
| Exposure route :                       | Inhalation             |
| Exposure frequency :                   | Long-term              |
| Limit value :                          | 0,73 mg/m <sup>3</sup> |

| Limit value :                   | 0,73 mg/m <sup>3</sup>       |
|---------------------------------|------------------------------|
| Limit value type :              | DNEL worker (local)          |
| Exposure route :                | Inhalation                   |
| Exposure frequency :            | Long-term                    |
| Limit value :                   | 2,92 mg/m <sup>3</sup>       |
| Limit value type :              | DNEL worker (systemic)       |
| Exposure route :                | Inhalation                   |
| Exposure frequency :            | Long-term                    |
| Limit value :                   | 1 mg/m <sup>3</sup>          |
| PNEC                            |                              |
| CITRIC ACID MONOHYDRATE ; CAS N | lo. : 5949-29-1              |
| Limit value type :              | PNEC (Aquatic, freshwater)   |
| Limit value :                   | 0,44 mg/l                    |
| Limit value type :              | PNEC (Aquatic, marine water) |
| Limit value :                   | 0,044 mg/l                   |
| Limit value type :              | PNEC (Sediment, freshwater)  |
| Limit value :                   | 3,46 mg/kg                   |

Limit value type :

PNEC (Sediment, marine water)

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Limit value : Limit value type : Limit value : Limit value type : Limit value : 34,6 mg/kg PNEC (Soil) 33,1 mg/kg PNEC (Sewage treatment plant) > 1000 mg/l

#### 8.2 Exposure controls

#### Personal protection equipment

#### Eye/face protection

Eye glasses with side protection EN 166

#### Skin protection

#### Hand protection

Short-term exposure (Level 2: < 30 min): disposable gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.1 mm.

Long-term exposure (Level 6: < 480 min): protective gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.7 mm.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

#### **Body protection**

Body protection: not required.

## **Respiratory protection**

Usually no personal respirative protection necessary.

#### **General information**

Keep away from food, drink and animal feedingstuffs. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Separate storage of work clothes. When using do not eat, drink, smoke, sniff.

#### Other protection measures

Provide adequate ventilation.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance :LiquidColour :light red

|       |   | 5         |
|-------|---|-----------|
| Odour | : | odourless |

#### Safety characteristics

| Salety characteristics                       |                     |         |                   |                   |              |
|--|---------------------|---------|-------------------|-------------------|--------------|
| Melting point/freezing point :               | (1013 hPa)          |         | No data available |                   |              |
| Initial boiling point and boiling<br>range : | ( 1013 hPa )        | approx. | 100               | °C                |              |
| Decomposition temperature :                  | (1013 hPa)          |         | not applicable    |                   |              |
| 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. | 1,2               | g/cm <sup>3</sup> |              |
| Solvent separation test :                    | ( 20 °C )           | <       | 3                 | %                 |              |
| Water solubility :                           | ( 20 °C )           |         | 100               | Weight-%          |              |
| pH value :                                   | ( 20 °C / 50 g/l )  |         | 1,5 - 2,5         |                   |              |
| pH value :                                   | ( 20 °C / 100 g/l ) | <       | 1                 |                   |              |
| log P O/W :                                  |                     |         | No data available |                   |              |
| Flow time :                                  | ( 20 °C )           | <       | 12                | S                 | DIN-cup 4 mm |
| Odour threshold :                            |                     |         | not applicable    |                   |              |
| Maximum VOC content (EC) :                   |                     |         | 0                 | Weight-%          |              |
|  |                     |         |                   |                   |              |

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Oxidising liquids : Explosive properties : Corrosive to metals : Not applicable. Not applicable. Not corrosive to metals.

#### 9.2 Other information

None

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

None, if handled according to order.

#### 10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7). Exothermal reaction with alkalis.

#### **10.3 Possibility of hazardous reactions** Exothermal reaction with alkalis.

- **10.4 Conditions to avoid** No information available.
- **10.5 Incompatible materials** Alkali (lye), concentrated.
- **10.6 Hazardous decomposition products** None known.

#### **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

| Acute oral toxicity           |  |
|-------------------------------|--|
| Parameter :                   | ATEmix calculated                            |
| Exposure route :              | Oral   |
| Effective dose :              | not relevant                                 |
| Parameter :                   | LD50 (PHOSPHORIC ACID ; CAS No. : 7664-38-2) |
| Exposure route :              | Oral   |
| Species :                     | Rat  |
| Effective dose :              | 1530 mg/kg                                   |
| Parameter :                   | LD50 ( CITRIC ACID ; CAS No. : 77-92-9 )     |
| Exposure route :              | Oral   |
| Species :                     | Rat  |
| Effective dose :              | 9999,99 mg/kg                                |
| Practical experience/human ev | ridence                                      |
| Eye contact: irritation.      |  |
| Acute dermal toxicity         |  |
| Parameter :                   | ATEmix calculated                            |
| Exposure route :              | Dermal                                       |
| Effective dose :              | not relevant                                 |
| Parameter :                   | LD50 (PHOSPHORIC ACID ; CAS No. : 7664-38-2) |
| Exposure route :              | Dermal                                       |
| Species :                     | Rabbit                                       |
| Effective dose :              | 2740 mg/kg                                   |
| Acute inhalation toxicity     |  |
| Parameter :                   | ATEmix calculated                            |
| Exposure route :              | Inhalation (vapour)                          |
| Effective dose :              | not relevant                                 |

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|      | Parameter :                       | LD50 ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 )                                 |
|------|-----------------------------------|--|
|      | Exposure route :                  | Inhalation   |
|      | Species :                         | Rabbit   |
|      | Effective dose :                  | 1,689 mg/l   |
|      | Corrosion                         |  |
|      | Skin corrosion/irritation         |  |
|      | Causes skin irritation.           |  |
|      | Serious eye damage/eye irr        | itation  |
|      | Causes serious eye irritation.    |  |
|      | Respiratory or skin sen           |  |
|      | Based on available data, the cla  |  |
|      | CMR effects (carcinoge            | nicity, mutagenicity and toxicity for reproduction)                            |
|      | Carcinogenicity                   |  |
|      | Based on available data, the c    | lassification criteria are not met.  |
|      | Germ cell mutagenicity            |  |
|      |                                   | lassification criteria are not met.  |
|      | Reproductive toxicity             |  |
|      | •                                 | lassification criteria are not met.  |
|      | STOT-single exposure              |  |
|      | Based on available data, the cla  |  |
|      | STOT-repeated exposu              | re   |
|      | Based on available data, the cla  | issification criteria are not met.   |
|      | Aspiration hazard                 |  |
|      | Based on available data, the cla  | issification criteria are not met.   |
| 11.2 | Information on other ha           | zards  |
|      | Endocrine disrupting p            | roperties  |
|      |                                   | ny substances that have endocrine disrupting properties.                       |
|      | Additional information            | ,  |
|      |                                   | ut according to the calculation method of Regulation No. (EC) 1272/2008 [CLP]. |
|      | The classification was carried of |  |
| SEC  | TION 12: Ecological infor         | rmation  |
|      |                                   |  |
| 12.1 | Toxicity                          |  |
|      | Aquatic toxicity                  |  |
|      | Based on available data, the cla  | ssification criteria are not met.  |
|      | Acute (short-term) fish toxi      |  |
|      | Parameter :                       | LC50 ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 )                                 |
|      | Species :                         | Fish   |
|      | Evaluation parameter :            | Acute (short-term) fish toxicity   |
|      |                                   |  |

Effective dose : 3 - 3,5 mg/l Exposure time : 96 h LC0 ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 ) Parameter : Species : Fish Evaluation parameter : Acute (short-term) fish toxicity Effective dose : 100 - 1000 mg/l Acute (short-term) toxicity to crustacea EC50 ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 ) Parameter : Species : Daphnia magna (Big water flea) Evaluation parameter : Acute (short-term) daphnia toxicity Effective dose : > 100 mg/l OECD 202 Method :

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|---|--|---------------------------------------|-------------------------------------|-----------------|
| Toxicity to mi                                  | croorganisms                             |                                       |                                     |                 |
| Parameter :                                     | 5  | EC0 ( CITRIC ACID MONOHYDR            | ATE ; CAS No. : 5949-29-1 )         |                 |
| Evaluation par                                  |  | Bacteria toxicity                     |                                     |                 |
| Effective dose                                  |  | 10000 mg/l                            |                                     |                 |
| 12.2 Persistence a                              | -  | lity                                  |                                     |                 |
| Abiotic degr                                    |  |                                       |                                     |                 |
| No data availab                                 |  |                                       |                                     |                 |
| Biodegradat                                     | tion                                     |                                       |                                     |                 |
| The surfactants<br>No.648/2004 or               |  | nixture comply with the biodegrad     | dability criteria as laid down in R | Regulation (EC) |
| 12.3 Bioaccumula                                | tive potential                           |                                       |                                     |                 |
| No information a                                | vailable.                                |                                       |                                     |                 |
| 12.4 Mobility in so                             | oil                                      |                                       |                                     |                 |
| Distribution                                    | 1  |                                       |                                     |                 |
| There are no da                                 | ata available on the                     | preparation itself.                   |                                     |                 |
| 12.5 Results of PE                              | BT and vPvB as                           | ssessment                             |                                     |                 |
| The substances i                                | in the mixture do no                     | ot meet the PBT/vPvB criteria acc     | cording to REACH, annex XIII.       |                 |
| 12.6 Endocrine dis                              |  |                                       |                                     |                 |
|   |  | Ibstances that have endocrine di      | srupting properties.                |                 |
| 12.7 Other advers                               | se effects                               |                                       |                                     |                 |
| No information a                                | vailable.                                |                                       |                                     |                 |
| 12.8 Additional ec                              | otoxicologica                            | l information                         |                                     |                 |
|   | -  | ater/ground water.                    |                                     |                 |
| Prevent from flow                               |  |                                       |                                     |                 |

#### 13.1 Waste treatment methods

#### Directive 2008/98/EC (Waste Framework Directive)

After intended use

#### **Disposal operations**

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

#### **Recovery operations**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

Waste codes/waste designations according to EWC/AVV

Concentrate/larger quantities: 20 01 14\* acids.

#### **SECTION 14: Transport information**

#### 14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

- 14.3 Transport hazard class(es) No dangerous good in sense of these transport regulations.
  14.4 Packing group No dangerous good in sense of these transport regulations.

## 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

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## 14.6 Special precautions for user

None

## 14.7 Maritime transport in bulk according to IMO instruments

not applicable

#### **SECTION 15: Regulatory information**

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

#### EU legislation

Authorisations and/or restrictions on use

#### Restrictions on use

#### Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no.: 3, 75

#### National regulations

#### **Restrictions of occupation**

According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented.

#### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment has not been carried out.

#### **SECTION 16: Other information**

#### 16.1 Indication of changes

14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Sea transport (IMDG) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR) · 15. Restrictions on use

#### 16.2 Abbreviations and acronyms

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimates

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CMR = Carcinogen, Mutagen or Reproductive toxicant

 $CO_2 = Carbon dioxide$ 

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EC = European Commission

EC50 = Half maximal effective concentration

EN = European Standard (Norm)

EU = European Union

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

H statement = GHS Hazard statement

IATA = International Air Transport Association ICAO-TI = International Civil Aviation Organization-Technical Instructions

IMDG = International Maritime Dangerous Goods

LC50 = Median lethal concentration

LD50 = Median lethal dose

LogPow = Logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NOEC/NOEL = No observed effect concentration/level

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

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|                 |   |                      |               |

PNEC = Predicted No Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RMM = Risk Management Measure RRN = REACH Registration Number

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

SVHC = Substances of Very High Concern

TLV/STEL = Threshold limit value/short-term exposure limit

TLV/TWA = Threshold limit value/time weighted average

UN = United Nations

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

# **16.3 Key literature references and sources for data**

None

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

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP].

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

| H290 | May be corrosive to metals.              |
|------|--|
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage.               |
|      |  |

- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

#### 16.6 Training advice

None

#### 16.7 Additional information

Follow the instructions for use on the label.

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.