

Safety Data Sheet

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



Trade name : Zinc Paste
Revision date : 17.11.2014
Print date : 27.01.2016

Version (Revision) : 3.0.0 (2.0.0)

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

1.1 Product identifier

Zinc Paste

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

Relevant identified uses

Coatings and paints, fillers, putties, thinners

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Bio-Circle Surface Technology GmbH

Street : Berensweg 200

Postal code/city : 33334 Gütersloh

Telephone : +49 5241 9443 0

Telefax : +49 5241 9443 44

Information contact : labor@bio-circle.de

1.4 Emergency telephone number

+49 5241 9443 51 during normal office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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

Aquatic Chronic 1 ; H410 - Hazardous to the aquatic environment : Category 1 ; Very toxic to aquatic life with long lasting effects.

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

2.2 Label elements

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

Hazard pictograms



Flame (GHS02) · Environment (GHS09)

Signal word

Warning

Hazard statements

H226 Flammable liquid and vapour.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P233 Keep container tightly closed.

P273 Avoid release to the environment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains 2-BUTANONE OXIME. May produce an allergic reaction.

2.3 Other hazards

None

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SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

ZINC POWDER - ZINC DUST (STABILIZED) ; REACH registration No. : 01-2119467174-37-XXXX ; EC No. : 231-175-3; CAS No. : 7440-66-6

Weight fraction : $\geq 50 - < 100$ %

Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

NAPHTHA (PETROLEUM), LIGHT AROMATIC ; REACH registration No. : 01-2119455851-35-XXXX ; EC No. : 918-668-5; CAS No. : 64742-95-6

Weight fraction : $\geq 5 - < 10$ %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT SE 3 ; H335 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

XYLENE ; REACH registration No. : 01-2119488216-32-XXXX ; EC No. : 215-535-7; CAS No. : 1330-20-7

Weight fraction : $\geq 1 - < 5$ %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315

2-BUTANONE OXIME ; REACH registration No. : 01-2119539477-28-XXXX ; EC No. : 202-496-6; CAS No. : 96-29-7

Weight fraction : $< 0,5$ %

Classification 1272/2008 [CLP] : Carc. 2 ; H351 Eye Dam. 1 ; H318 Acute Tox. 4 ; H312 Skin Sens. 1 ; H317

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Remove contaminated, saturated clothing immediately.

Following inhalation

In case of respiratory tract irritation, consult a physician. Remove casualty to fresh air and keep warm and at rest.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO₂) Sand Nitrogen Extinguishing blanket

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Fire transmission possible.

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Hazardous combustion products

Carbon dioxide (CO₂) Carbon monoxide.

5.3 Advice for firefighters

Move undamaged containers from immediate hazard area if it can be done safely. Cool down endangered containers with full water-jet. Use foam in high amounts. Contaminated tempering water is gathered separately and may not reach the sewage system.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

P241 - Use explosion-proof electrical/ventilating/lighting/.../equipment. Take precautionary measures against static discharges. Use personal protection equipment. Remove all sources of ignition.

6.2 Environmental precautions

P273 - Avoid release to the environment. Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep container tightly closed. Ensure adequate ventilation of the storage area.

7.2 Conditions for safe storage, including any incompatibilities

Ensure adequate ventilation of the storage area. Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Storage class (TRGS 510) : 4.3

Keep away from

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) :	TRGS 900 (D)
Limit value :	100 ppm / 440 mg/m ³
Peak limitation :	2(II)
Remark :	H
Version :	02.04.2014
Limit value type (country of origin) :	STEL (EC)
Limit value :	100 ppm / 442 mg/m ³
Remark :	H
Version :	08.06.2000

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Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 221 mg/m³
Remark : H
Version : 08.06.2000

Biological limit values

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Xylene / Whole blood (B) / End of exposure or end of shift
Limit value : 1,5 mg/l
Version : 31.03.2004

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Methylhippuric acid / Urine (U) / End of exposure or end of shift
Limit value : 2 g/l
Version : 31.03.2004

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL worker (systemic) (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)

Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 5 mg/m³

Limit value type : DNEL worker (systemic) (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)

Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 83 mg/kg

Limit value type : DNEL worker (systemic) (NAPHTA (PETROLEUM), LIGHT AROMATIC ; CAS No. : 64742-95-6)

Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 25 mg/kg

Limit value type : DNEL worker (systemic) (NAPHTA (PETROLEUM), LIGHT AROMATIC ; CAS No. : 64742-95-6)

Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 150 mg/m³

Limit value type : DNEL worker (local) (XYLENE ; CAS No. : 1330-20-7)

Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 289 mg/m³

Limit value type : DNEL worker (systemic) (XYLENE ; CAS No. : 1330-20-7)

Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 77 mg/m³

Limit value type : DNEL worker (systemic) (XYLENE ; CAS No. : 1330-20-7)

Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 289 mg/m³

Limit value type : DNEL worker (systemic) (XYLENE ; CAS No. : 1330-20-7)

Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 180 mg/kg

Limit value type : DNEL worker (local) (2-BUTANONE OXIME ; CAS No. : 96-29-7)

Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 3,33 mg/m³

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Limit value type : DNEL worker (systemic) (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 9 mg/m³

8.2 Exposure controls

Personal protection equipment

Eye/face protection



Wear suitable safety goggles in case of splash.

Suitable eye protection

Safety goggles acc. EN 166.

Skin protection

Hand protection



Suitable gloves type : EN 374.

Suitable material : Butyl caoutchouc (butyl rubber)

Breakthrough time (maximum wearing time) : 480 min.

Thickness of the glove material : 0.3 mm.

Remark : The exact break trough time has to be requested from the protective glove manufacturer and limits has to be ensured.

Respiratory protection



Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protection apparatus

Combination filtering device (EN 14387)

Type : A

Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

General health and safety measures

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately.

8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Paste

Colour : grey

Odour : typical

Safety relevant basis data

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Initial boiling point and boiling range (1013 hPa)	ca.	140 - 180	°C	
Flash point :	>	23	°C	
Ignition temperature :	>	465	°C	
Lower explosion limit :	ca.	1	Vol-%	
Upper explosion limit :	ca.	8	Vol-%	
Vapour pressure : (50 °C)		No data available		
Density : (20 °C)	ca.	2,85	g/cm ³	
pH :		not applicable		
Flow time : (20 °C)	ca.	60	s	DIN-cup 4 mm
Maximum VOC content (EC) :		15	Wt %	
Maximum VOC content (Switzerland) :		15	Wt %	

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

Contact with water liberates extremely flammable gases. (R15)
Reactions with strong oxidants are expected. Peroxides can be produced.

10.2 Chemical stability

Thermal stability: at normal atmospheric pressure fully distillable

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 401
Parameter :	LD50 (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 900 mg/kg
Parameter :	LD50 (NAPHTHA (PETROLEUM), LIGHT AROMATIC ; CAS No. : 64742-95-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 401

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Parameter : LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Oral
Species : Rat
Effective dose : 4300 mg/kg

Acute dermal toxicity

Parameter : ATEmix calculated
Exposure route : Dermal
Effective dose : > 2000 mg/kg

Parameter : LD50 (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 1000 mg/kg
Method : OECD 402

Parameter : LD50 (NAPHTHA (PETROLEUM), LIGHT AROMATIC ; CAS No. : 64742-95-6)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg
Method : OECD 402

Parameter : LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Dermal
Species : Rabbit
Effective dose : 4200 mg/kg

Acute inhalation toxicity

Parameter : ATEmix calculated
Exposure route : Inhalation
Effective dose : > 20 mg/l

Parameter : LC50 (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route : Inhalation
Species : Rat
Effective dose : > 5410 mg/m³
Method : OECD 403

Parameter : LC50 (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Exposure route : Inhalation
Species : Rat
Effective dose : > 4,83 mg/l
Exposure time : 4 h
Method : OECD 403

Parameter : LC50 (NAPHTHA (PETROLEUM), LIGHT AROMATIC ; CAS No. : 64742-95-6)
Exposure route : Inhalation
Species : Rat
Effective dose : > 5000 mg/l
Method : OECD 403

Parameter : LC50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Species : Rat
Effective dose : 6350 mg/l
Exposure time : 4 h

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Species : Pimephales promelas (fathead minnow)
Evaluation parameter : Acute (short-term) fish toxicity

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Effective dose : 330 - 780 µg/l
Exposure time : 96 h
Parameter : LC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 7,6 mg/l
Exposure time : 96 h
Method : OECD 203
Parameter : LC50 (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Species : Fish
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 100 mg/l
Exposure time : 96 h
Evaluation : Harmless to fish up to the concentration tested.
Method : OECD 203
Parameter : LC50 (NAPHTHA (PETROLEUM), LIGHT AROMATIC ; CAS No. : 64742-95-6)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 9,2 mg/l
Exposure time : 96 h

Bacteria toxicity

Parameter : EC50 (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Species : Bacteria toxicity
Effective dose : 5,2 mg/l
Exposure time : 3 h
Parameter : EC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Bacteria toxicity
Effective dose : > 175 mg/l
Parameter : EC50 (2-BUTANONE OXIME ; CAS No. : 96-29-7)
Species : Pseudomonas putida
Evaluation parameter : Bacteria toxicity
Effective dose : ca. 281 mg/l
Exposure time : 17 h
Parameter : EC50 (NAPHTHA (PETROLEUM), LIGHT AROMATIC ; CAS No. : 64742-95-6)
Species : Bacteria toxicity
Effective dose : 15,41 mg/l
Exposure time : 40 h

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (NAPHTHA (PETROLEUM), LIGHT AROMATIC ; CAS No. : 64742-95-6)
Inoculum : Biodegradation
Effective dose : 78 %
Exposure time : 28 d

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

According to the recipe, contains no AOX. According to the recipe, contains no AOX.

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SECTION 13: Disposal considerations

The waste codes are recommendations based on the schedule use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

08 01 11 - Abfälle aus HZVA von Beschichtungen (Farben, Lacke, Email), Klebstoffen, Dichtmassen und Druckfarben. (Farb- und Lackabfälle, die organische Lösemittel oder andere gefährliche Stoffe enthalten.)

Waste code packaging

15 01 04 - metallic packaging.

13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

SECTION 14: Transport information

14.1 UN number

UN 1993

14.2 UN proper shipping name

Land transport (ADR/RID)

FLAMMABLE LIQUID, N.O.S. (ZINC POWDER · NAPHTHA (PETROLEUM), LIGHT AROMATIC · XYLENE)

Sea transport (IMDG)

FLAMMABLE LIQUID, N.O.S. (ZINC POWDER · NAPHTHA (PETROLEUM), LIGHT AROMATIC · XYLENE)

Air transport (ICAO-TI / IATA-DGR)

FLAMMABLE LIQUID, N.O.S. (XYLENE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3
Classification code : F1
Hazard identification number (Kemler No.) : 30
Tunnel restriction code : D/E
Special provisions : 640E · LQ 7 · LQ 5 I · E 1
Hazard label(s) :



3 / N

Sea transport (IMDG)

Class(es) : 3
EmS-No. : F-E / S-E
Special provisions : LQ 5 I · E 1
Hazard label(s) :



3 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3
Special provisions : E 1

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Hazard label(s) :



3

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : Yes

Sea transport (IMDG) : Yes (P)

Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

EU legislation

Other regulations (EU)

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National regulations

AT: Labelling according to Austrian regulations (Chemikaliengesetz/ChemV).

CH: Chemikalienvorordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

Other regulations, restrictions and prohibition regulations

Betriebssicherheitsverordnung (BetrSichV)

No flammable liquid according to BetrSichV.

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

16.1 Indication of changes

03. Hazardous ingredients

16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX: adsorbable organohalogenes

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: Classification Labelling and Packaging (Regulation (EC) No. 1272/2008)

EAK / AVV: europäischer Abfallschlüsselkatalog (european waste catalogue)

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

RCP: reciprocal calculation procedure

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RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
TRGS: Technische Regel für den Umgang mit Gefahrstoffen
VbF: Verordnung über brennbare Flüssigkeiten
VOC: volatile organic compound
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse (water hazardous class)

16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank
ECHA: Classification And Labelling Inventory
ECHA: Registered Substances
ECHA: Registered Substances
EC_Safety Data Sheet of Suppliers
ESIS: European Chemical Substances Information System
GDL: Gefahrstoffdatenbank der Länder
UBA Rigoletto: Wassergefährdende Stoffe

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

No information available.

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

16.6 Training advice

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.