

SAFETY DATA SHEET

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

Revision date: 8 Mar 2022

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Version: 4



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Mabanol Engine Coolant Basic

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

* 1.1. Product identifier

Trade name/designation:

Mabanol Engine Coolant Basic

UFI:

2JYV-0NWX-1D4V-THUW

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

Use of the substance/mixture:

Antifreeze agent

1.3. Details of the supplier of the safety data sheet

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

Mabanol GmbH & Co. KG

Koreastraße 7

20457 Hamburg

Germany

Telephone: 0049 (0) 40 36809988

E-mail: info@mabanol.com

Website: www.mabanol.com

E-mail (competent person): giznord@giz-nord.de

1.4. Emergency telephone number

Giftinformationszentrale Göttingen , 24h: 0049 (0) 551 1 92 40

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|--|--------------------------|
| Acute toxicity (oral) (<i>Acute Tox. 4</i>) | H302: Harmful if swallowed. | |
| STOT-repeated exposure (<i>STOT RE 2</i>) | H373: May cause damage to organs through prolonged or repeated exposure. (kidneys) | |

* 2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark



GHS08

Health hazard

Signal word: Warning

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Hazard components for labelling:

Disodium tetraborate, anhydrous; ethane-1,2-diol

Hazard statements for health hazards

| | |
|------|--|
| H302 | Harmful if swallowed. |
| H373 | May cause damage to organs through prolonged or repeated exposure. (kidneys) |

Precautionary statements

| | |
|------|--------------------------------|
| P102 | Keep out of reach of children. |
|------|--------------------------------|

Precautionary statements Prevention

| | |
|------|---|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |

Precautionary statements Response

| | |
|------|--|
| P314 | Get medical advice/attention if you feel unwell. |
|------|--|

Precautionary statements Disposal

| | |
|------|---|
| P501 | Dispose of contents/container to Dispose of waste according to applicable legislation.. |
|------|---|

Additional information:

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

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|--|---|-------------------------|
| CAS No.: 107-21-1 EC No.: 203-473-3 REACH No.: 01-2119456816-28 | ethane-1,2-diol Acute Tox. 4 (H302), STOT RE 2 (H373) Warning | 80 - < 95 weight-% |
| CAS No.: 12179-04-3 EC No.: 215-540-4 REACH No.: 01-2119490790-32 | Disodium tetraborate, anhydrous <i>Candidate List of Substances of Very High Concern for Authorisation!</i> Eye Irrit. 2 (H319), Repr. 1B (H360FD) Danger Specific concentration limit (SCL) Repr. 1B; H360FD: C ≥ 6.5% | 0.5 - < 1.5 weight-% |

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. 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. Get medical advice/attention if you feel unwell.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, consult a physician.

After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

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Following ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Observe risk of aspiration if vomiting occurs. Get medical advice/attention if you feel unwell.

* 4.2. Most important symptoms and effects, both acute and delayed

Following inhalation: May cause respiratory irritation. Symptoms: Cough. Dizziness. Nausea. Ingestion causes nausea, weakness and central nervous system effects.

May cause damage to kidneys through prolonged or repeated exposure if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

alcohol resistant foam. Extinguishing powder. Carbon dioxide (CO₂). Sand.
In case of major fire and large quantities: Water mist. Water spray jet.

Unsuitable extinguishing media:

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

In case of fire: Gases/vapours, toxic.

5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Treat the recovered material as prescribed in the section on waste disposal. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

* 6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Use personal protection equipment. Use appropriate respiratory protection. Ventilate affected area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8.

* 6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). 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

For cleaning up:

Take up mechanically, placing in appropriate containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8). Provide adequate ventilation.

Fire prevent measures:

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

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Used working clothes should not be worn outside the work area. Wash contaminated clothing before reuse.

* 7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

Requirements for storage rooms and vessels:

Keep only in the original container in a cool, well-ventilated place.

Hints on storage assembly:

Do not store together with: Oxidising agent, strong. Acids. Alkali metals.

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Temperature control required. Keep container tightly closed.

Protect against: Light. UV-radiation/sunlight. Air.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

* 8.1. Control parameters

8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name | ① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark |
|--------------------------------------|---|--|
| TRGS 900 (DE) | ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3 | ① 10 ppm (26 mg/m ³) ② 20 ppm (52 mg/m ³) ⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden) |
| IOELV (EU) | ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3 | ① 20 ppm (52 mg/m ³) ② 40 ppm (104 mg/m ³) ⑤ (may be absorbed through the skin) |
| DFG (DE) | Disodium tetraborate, anhydrous CAS No.: 12179-04-3 EC No.: 215-540-4 | ① 0.75 mg/m ³ ② 0.75 mg/m ³ |
| TRGS 900 (DE) | Disodium tetraborate, anhydrous CAS No.: 12179-04-3 EC No.: 215-540-4 | ① 0.5 mg/m ³ ② 1 mg/m ³ ⑤ (einatembare Fraktion) |

8.1.2. Biological limit values

No data available

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8.1.3. DNEL-/PNEC-values

No data available

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation.

8.2.2. Personal protection equipment



Eye/face protection:

Safety goggles with side protection. In case of increased risk add protective face shield. DIN EN 166.

Skin protection:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: NBR (Nitrile rubber). PVC (polyvinyl chloride). CR (polychloroprene, chloroprene rubber). Thickness of the glove material: > 0,4 mm. Breakthrough time:: > 240 min.

Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable protective clothing: flame-resistant.

Respiratory protection:

Usually no personal respirative protection necessary.

Respiratory protection necessary at: exceeding exposure limit values. aerosol or mist formation. Suitable respiratory protection apparatus: Filtering device (full mask or mouthpiece) with filter: A2, A2/P2, ABEK.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: clear

Odour: not determined

Safety relevant basis data

| Parameter | Value | at °C | ① Method ② Remark |
|--|-------------------------------|-------|----------------------|
| pH | 7 - 9 | 20 °C | |
| Melting point | <i>not determined</i> | | |
| Freezing point | <i>not determined</i> | | |
| Initial boiling point and boiling range | 163 - 185 °C | | ① ASTM D1120 |
| Decomposition temperature | <i>not determined</i> | | |
| Flash point | > 112 °C | | ① ASTM D92 |
| Evaporation rate | <i>not determined</i> | | |
| Auto-ignition temperature | <i>not determined</i> | | |
| Upper/lower flammability or explosive limits | <i>not determined</i> | | |
| Vapour pressure | <i>not determined</i> | | |
| Vapour density | <i>not determined</i> | | |
| Density | 1.12 - 1.14 g/cm ³ | 20 °C | ① ASTM D4052 |

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| Parameter | Value | at °C | ① Method ② Remark |
|--|-----------------------|-------|----------------------|
| Relative density | <i>not determined</i> | | |
| Bulk density | <i>not determined</i> | | |
| Water solubility | completely miscible | | |
| Partition coefficient: n-octanol/water | <i>not determined</i> | | |
| Dynamic viscosity | <i>not determined</i> | | |
| Kinematic viscosity | <i>not determined</i> | | |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

* 10.5. Incompatible materials

Oxidising agent, strong. Acids. Alkali metals.

* 10.6. Hazardous decomposition products

aldehydes. Carbon dioxide (CO₂). Carbon monoxide.

SECTION 11: Toxicological information

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

| Substance name | Toxicological information |
|---|--|
| ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3 | LD₅₀ oral: 7,712 mg/kg (Rat) LD₅₀ dermal: >3,500 mg/kg (Mouse) LC₅₀ Acute inhalation toxicity (vapour): >2.5 mg/l 6 h (Rat) |
| Disodium tetraborate, anhydrous CAS No.: 12179-04-3 EC No.: 215-540-4 | LD₅₀ oral: 3,450 - 4,080 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): >2.04 mg/l 4 h (Rat) |

Acute oral toxicity:

Harmful if swallowed.

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

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Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

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

STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure. (kidneys).

Aspiration hazard:

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

Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

* 11.2. Information on other hazards

Endocrine disrupting properties:

No information available.

SECTION 12: Ecological information

* 12.1. Toxicity

| Substance name | Toxicological information |
|---|---|
| ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3 | LC ₅₀ : 15,380 mg/l 4 d (fish) EC ₅₀ : 8,590 mg/l 2 d (crustaceans) ErC ₅₀ : ≥100 mg/l (Algae/water plant) |

* 12.2. Persistence and degradability

| Substance name | Biodegradation | Remark |
|---|----------------|---|
| ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3 | — | Readily biodegradable (according to OECD criteria). |

Biodegradation:

Biodegradable. Data apply to the main component.

12.3. Bioaccumulative potential

| Substance name | Log K _{ow} | Bioconcentration factor (BCF) |
|---|---------------------|-------------------------------|
| ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3 | -1.36 | |

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

| Substance name | Results of PBT and vPvB assessment |
|---|--|
| ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3 | This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
| Disodium tetraborate, anhydrous CAS No.: 12179-04-3 EC No.: 215-540-4 | This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |

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

12.6. Endocrine disrupting properties

No information available.

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12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

| | |
|------------|---|
| 16 01 14 * | antifreeze fluids containing hazardous substances |
|------------|---|

*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

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

Appropriate disposal / Package:

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

SECTION 14: Transport information

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|--|--|--|--|
| 14.1. UN number or ID number | | | |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| 14.2. UN proper shipping name | | | |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| 14.3. Transport hazard class(es) | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.4. Packing group | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.5. Environmental hazards | | | |
| not relevant | not relevant | not relevant | not relevant |
| 14.6. Special precautions for user | | | |
| not relevant | not relevant | not relevant | not relevant |

14.7. Maritime transport in bulk according to IMO instruments

not relevant.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Use restriction according to REACH annex XVII, no.: 3. 30.

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: Disodium tetraborate, anhydrous (EC No. 215-540-4, CAS No. 12179-04-3).

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Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]: No information available.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds: No information available.

Observe in addition any national regulations!

15.1.2. National regulations

[DE] National regulations

Störfallverordnung

for substances contained in the product:

This product is not assigned to a hazard category.

Water hazard class

WGK:

1 - schwach wassergefährdend

Remark:

Self-classification (mixture; calculation rule).

* 15.2. Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out: ethane-1,2-diol. Disodium tetraborate, anhydrous.

SECTION 16: Other information

* 16.1. Indication of changes

| | |
|-------|--|
| 1.1. | Product identifier |
| 2.2. | Label elements |
| 3.2. | Mixtures |
| 4.2. | Most important symptoms and effects, both acute and delayed |
| 6.1. | Personal precautions, protective equipment and emergency procedures |
| 6.2. | Environmental precautions |
| 7.2. | Conditions for safe storage, including any incompatibilities |
| 8.1. | Control parameters |
| 8.2. | Exposure controls |
| 9.1. | Information on basic physical and chemical properties |
| 10.5. | Incompatible materials |
| 10.6. | Hazardous decomposition products |
| 11.1. | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |
| 11.2. | Information on other hazards |
| 12.1. | Toxicity |
| 12.2. | Persistence and degradability |
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture |
| 15.2. | Chemical Safety Assessment |
| 16.1. | Indication of changes |

16.2. Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists

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

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

CAS Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

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ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC₅₀: Lethal concentration, 50 percent

LD₅₀: Lethal dose, 50 percent

NIOSH: National Institute of Occupational Safety and Health

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OEL: Occupational Exposure limit (Arbeitsplatzgrenzwert)

OSHA: Occupational Safety and Health Administration

PEL: permissible exposure limit (Zulässiger Expositionsgrenzwert)

PBT: persistent bioaccumulative toxic

PNEC: predicted no effect concentration

REL: Recommended exposure limit (Empfohlene Expositionsgrenze)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit (Kurzzeitgrenzwert) (15 min)

SVHC: substance of very high concern

TLV: Threshold Limit Values (Schwellwert Grenzwerte)

TRGS Technische Regeln für Gefahrstoffe

TSCA: Toxic Substances Control Act

TWA: Time Weighted Average (Zeitlich gewichteter Mittelwert) (8 h)

VOC: Volatile Organic Compounds

vPvB: very persistent and very bioaccumulative

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

16.3. Key literature references and sources for data

No data available

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

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|--|--------------------------|
| Acute toxicity (oral) (<i>Acute Tox. 4</i>) | H302: Harmful if swallowed. | |
| STOT-repeated exposure (<i>STOT RE 2</i>) | H373: May cause damage to organs through prolonged or repeated exposure. (kidneys) | |

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

| Hazard statements | |
|-------------------|--|
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |
| H360FD | May damage fertility. May damage the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

16.6. Training advice

No data available

16.7. Additional information

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

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case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

* Data changed compared with the previous version