

according to UK REACH Regulation

Cacodylate buffer pH 7.3 (0.2 mol/l)

Revision date: 08.08.2023

Product code: 16553.xxxxx

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

1.1. Product identifier

Cacodylate buffer pH 7.3 (0.2 mol/l)

UFI:

35UF-812F-Y004-F750

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

Use of the substance/mixture

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

| Company name: | MORPHISTO GmbH | |
|--------------------------|--|-----------------------------------|
| Street: | Schumannstr. 144 | |
| Place: | D-63069 Offenbach | |
| Telephone: | +49 (0) 69 / 400 3019-60 | Telefax: +49 (0) 69 / 400 3019-64 |
| E-mail: | info@morphisto.de | |
| Contact person: | Morphisto GmbH | |
| E-mail: | gefahrstoffmanagement@morphisto.de | |
| Internet: | http://www.morphisto.de | |
| 1.4. Emergency telephone | Morphisto GmbH, Tel: +49(0)69 400 3019-60, M | Mo-Fr.: 09-16Uhr |

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Pictograms:



Hazard statements

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements

Avoid release to the environment. Collect spillage.

Labelling of packages where the contents do not exceed 125 ml

Pictograms:

P273

P391



2.3. Other hazards



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This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1% or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more have endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

wässrige Lösung

Hazardous components

| CAS No | Chemical name | | | | |
|-----------|---|--------------|------------------|-----------|--|
| | EC No | Index No | REACH No | | |
| | Classification (GB CLP F | Regulation) | | | |
| 124-65-2 | Sodium dimethylarsinate | 9 | | 1 - < 5 % | |
| | 204-708-2 | 033-002-00-5 | | | |
| | Acute Tox. 3, Acute Tox. 3, Aquatic Acute 1, Aquatic Chronic 1; H331 H301 H400 H410 | | | | |
| 7647-01-0 | hydrochloric acid % | | | < 0.1 % | |
| | 231-595-7 | 017-002-01-X | 01-2119484862-27 | | |
| | Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, STOT SE 3; H290 H314 H318 H335 | | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity | | | |
|-----------|--|---|-----------|--|--|--|
| | Specific Conc. | Limits, M-factors and ATE | | | | |
| 124-65-2 | 204-708-2 | Sodium dimethylarsinate | 1 - < 5 % | | | |
| | inhalation: ATE = 3 mg/l (vapours); inhalation: LC50 = 5,12 mg/l (dusts or mists); oral: LD50 = 2000 mg/kg | | | | | |
| 7647-01-0 | 231-595-7 | hydrochloric acid % | < 0.1 % | | | |
| | , | H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < : 3; H335: >= 10 - 100 | | | | |

Further Information

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

After inhalation

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

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with: Water and soap.



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After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In case of troubles or persistent symptoms, consult an ophthalmologist.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. The product itself does not burn.

5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2)., Arsenoxid, Arsenwasserstoff, Hydrogen chloride (HCI).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Wear personal protection equipment. (See section 8.)

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

Other information

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

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

Advice on safe handling

Wear suitable protective clothing. (See section 8.) Use extractor hood (laboratory).



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Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product.

Further information on handling

Conditions to avoid: Generation/formation of aerosols

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Recommended storage temperature: 15-25 °C

Hints on joint storage

Do not store together with: Food and fodder Reducing agent

Further information on storage conditions

Keep/Store only in original container.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|-----------|---|-----|-------|-----------|---------------|--------|
| 7647-01-0 | Hydrogen chloride (gas and aerosol mists) | 1 | 2 | | TWA (8 h) | WEL |
| | | 5 | 8 | | STEL (15 min) | WEL |

8.2. Exposure controls

Appropriate engineering controls

Use extractor hood (laboratory).

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. Suitable eye protection: Tightly sealed safety glasses. EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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. Pull-over gloves of rubber. EN ISO 374 Suitable material: (penetration time (maximum wearing period): >= 8 Stunden): CR (polychloroprenes, Chloroprene rubber). (0,5 mm) NBR (Nitrile rubber). (0,35 mm) FKM (fluororubber). (0,4 mm) PVC (Polyvinyl chloride). (0,5 mm) Butyl rubber. (0,5 mm) Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

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Skin protection

Use of protective clothing. Suitable protective clothing: Lab apron.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at:

aerosol or mist generation. Suitable respiratory protective equipment:

Combination filtering device (EN 14387) Filtertyp : B-P2/P3

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.

Environmental exposure controls

Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| 9.1. Information on basic physical and cher | | |
|---|----------------|------------------------|
| Physical state: | liquid | |
| Colour: | colourless | |
| Odour: | characteristic | |
| Melting point/freezing point: | | not determined |
| Boiling point or initial boiling point and | | 100 °C |
| boiling range: | | |
| Flammability: | | not determined |
| Lower explosion limits: | | not determined |
| Upper explosion limits: | | not determined |
| Flash point: | | not determined |
| Auto-ignition temperature: | | not determined |
| Decomposition temperature: | | not determined |
| pH-Value (at 20 °C): | | 7-8 |
| Viscosity / kinematic: | | not determined |
| Water solubility: (at 20 °C) | | completely miscible |
| Solubility in other solvents | | |
| not determined | | |
| Dissolution rate: | | not determined |
| Partition coefficient n-octanol/water: | | not determined |
| Dispersion stability: | | not determined |
| Vapour pressure: | | 23 hPa |
| (at 20 °C) | | |
| Density (at 20 °C): | | 1,04 g/cm ³ |
| Relative vapour density: | | not determined |
| Particle characteristics: | | not applicable |
| 9.2. Other information | | |
| Information with regard to physical haza | ard classes | |
| Explosive properties | | |

Explosive properties The product is not: Explosive. none Oxidizing properties none

Further Information

No information available.

SECTION 10: Stability and reactivity



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10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

Reducing agent Acid. Oxidizing agents. Amines.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). , Arsenoxid, Arsenwasserstoff, Hydrogen chloride (HCI).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

ATEmix calculated

ATE (oral) 3268 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 98,04 mg/l; ATE (inhalation dust/mist) 16,34 mg/l

| CAS No | Chemical name |
|--------|---------------|
| | Chemical hame |

| OAO NO | | | | | | |
|----------|-------------------------------|---------------|-----------|---------|----------------|--------|
| | Exposure route | Dose | | Species | Source | Method |
| 124-65-2 | Sodium dimethylarsinate | | | | | |
| | oral | LD50 mg/kg | 2000 | Rat | suppliers SDS. | |
| | inhalation vapour | ATE | 3 mg/l | | | |
| | inhalation (4 h) dust/mist | LC50 | 5,12 mg/l | Monkey | suppliers SDS. | |

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information



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12.1. Toxicity

Toxic to aquatic life with long lasting effects.

| CAS No | Chemical name | | | | | | |
|-----------|--------------------------|--------------|----------|-----------|---------------------|----------------|--------|
| | Aquatic toxicity | Dose | | [h] [d] | Species | Source | Method |
| 124-65-2 | Sodium dimethylarsinate | | | | | | |
| | Acute fish toxicity | LC50 mg/l | >152 | 96 h | Oncorhynchus mykiss | suppliers SDS. | |
| | Acute crustacea toxicity | EC50 mg/l | >61,6 | 48 h | Daphnia magna | suppliers SDS. | |
| 7647-01-0 | hydrochloric acid % | | | | | | |
| | Acute fish toxicity | LC50 | 862 mg/l | 96 h | Leuciscus idus | | |

12.2. Persistence and degradability

Partition coefficient n-octanol/water

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

| CAS No | Chemical name | Log Pow |
|----------|-------------------------|---------|
| 124-65-2 | Sodium dimethylarsinate | -1,55 |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal.

List of Wastes Code - residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

List of Wastes Code - used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

List of Wastes Code - contaminated packaging



according to UK REACH Regulation

| Laborchemikalien & Histologieservice | according to UK REACH Regulation | | | | | | |
|---|---|--------------|--|--|--|--|--|
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| PROTECTIVE CLOTHING collected municipal packag | | | | | | | |
| Contaminated packaging Non-contaminated packages may be re substance itself. | ecycled. Handle contaminated packages in the same way as the | | | | | | |
| SECTION 14: Transport information | | | | | | | |
| Land transport (ADR/RID) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sodium dimethylarsinate) | | | | | | |
| <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label: | 9 III 9 | | | | | | |
| Classification code: Special Provisions: Limited quantity: Excepted quantity: Transport category: | M6 274 335 375 601 5 L E1 3 | | | | | | |
| Hazard No: Tunnel restriction code: | 90 | | | | | | |
| Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label: | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sodium dimethylarsinate) 9 III 9 | | | | | | |
| Classification code: Special Provisions: | M6 274 335 375 601 | | | | | | |
| Limited quantity: Excepted quantity: | 5 L E1 | | | | | | |
| Marine transport (IMDG) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label: | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Sodium dimethyl arsinate) 9 III 9 | | | | | | |
| Special Provisions: | 274 335 969 | | | | | | |



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| Limited quantity: | 5 L | |
| Excepted quantity: EmS: | E1 F-A, S-F | |
| | 1 7 7, 0-1 | |
| Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u> | UN 3082 | |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(| |
| <u>. </u> | Sodium dimethyl arsinate) | |
| 14.3. Transport hazard class(es): | 9 | |
| 14.4. Packing group: | | |
| Hazard label: | 9 | |
| | | |
| Special Provisions: | A97 A158 A197 A215 | |
| Limited quantity Passenger: | 30 kg G | |
| Passenger LQ: | Y964 | |
| Excepted quantity: IATA-packing instructions - Passenger: | E1 964 | |
| IATA-max. quantity - Passenger: | 450 L | |
| IATA-packing instructions - Cargo: | 964 | |
| IATA-max. quantity - Cargo: | 450 L | |
| 14.5. Environmental hazards | | |
| ENVIRONMENTALLY HAZARDOUS: | Yes | |
| | | |
| | | |
| | | |
| 14.6. Special precautions for user | | |
| not relevant | | |
| 14.7. Maritime transport in bulk according t | o IMO instruments | |
| not relevant | | |
| SECTION 15: Regulatory information | | |
| 15.1. Safety, health and environmental regu | lations/legislation specific for the substance or mixture | |
| EU regulatory information | | |
| Restrictions on use (REACH, annex XVII) | : | |
| Entry 3, Entry 19, Entry 75 | | |
| Information according to 2012/18/EU (SEVESO III): | E2 Hazardous to the Aquatic Environment | |
| Additional information | | |
| This preparation is hazardous in the se | ense of regulation (EC) No 1272/2008 [GHS]. | |
| National regulatory information | | |
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juver work protection guideline' (94/33/EC). | nile |
| Water hazard class (D): | 3 - highly hazardous to water | |
| 15.2. Chemical safety assessment | | |
| For the following substances of this m hydrochloric acid % | ixture a chemical safety assessment has been carried out: | |

SECTION 16: Other information



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Changes

Änderungen: Rev. 1.00; 18.09.2014 Neuerstellung Rev. 2,0; 08.08.2023; general adjustment(s),revision of the classification

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

| RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations |
|---|
| Concerning the International Transport of Dangerous Goods by Rail) |
| 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 |
| ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) |
| GHS: Globally Harmonized System of Classification and Labelling of Chemicals |
| OSHA: Occupational Safety and Health Administration |
| LC50: Lethal concentration, 50 percent |
| LD50: Lethal dose, 50 percent |
| NOEL: No observed effect level |
| NOAEL: No observed adverse effect level |
| LOAEL: Lowest observed adverse effect level |
| NOAEC: No observed adverse effect level |
| LOAEC: Lowest observed adverse effect concentration |
| DNEL: Derived No Effect Level |
| PNEC: predicted no effect concentration |
| TSCA: Toxic Substances Control Act |
| IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER |
| NTP: National Toxicology Program |
| SARA: Superfund Amendments and Reauthorization Act |
| GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) |
| PBT: Persistent bioaccumulative toxic |
| SVHC: substance of very high concern |
| CLP: Classification, labelling and Packaging |
| REACH: Registration, Evaluation and Authorization of Chemicals |
| GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals |
| UN: United Nations |
| CAS: Chemical Abstracts Service |
| DNEL: Derived No Effect Level |
| DMEL: Derived Minimal Effect Level |
| PNEC: Predicted No Effect Concentration |
| ATE: Acute toxicity estimate |
| LL50: Lethal loading, 50% |
| EL50: Effect loading, 50% |
| EC50: Effective Concentration 50% |
| ErC50: Effective Concentration 50%, growth rate |
| NOEC: No Observed Effect Concentration |
| BCF: Bio-concentration factor |
| PBT: persistent, bioaccumulative, toxic |
| vPvB: very persistent, very bioaccumulative |
| ADR: Accord européen sur le transport des marchandises dangereuses par Route |
| (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| RID: Regulations concerning the international carriage of dangerous goods by rail |
| |



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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) EmS: Emergency Schedules MFAG: Medical First Aid Guide MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Aguatic Chronic 2; H411 | Calculation method |

Relevant H and EUH statements (number and full text)

| H290 | May be corrosive to metals. |
|------|---|
| H301 | Toxic if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| 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. |
| | |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine

Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

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. Bestehende Gesetze und Bestimmungen sind vom Empfänger unserer Produkte in eigener Verantwortung zu beachten.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)