

# Mangan-Standardlösung 1 mg Mn/l Mn(NO3)2 x 4 H2O in Salpetersäure 0,5 mol/l

Revision date: 31.03.2025

Product code: 32695

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

## 1.1. Product identifier

Mangan-Standardlösung 1 mg Mn/l Mn(NO3)2 x 4 H2O in Salpetersäure 0,5 mol/l

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

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

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

| Company name:            | AnalytiChem GmbH                   |   |
|--------------------------|------------------------------------|---|
|                          | ACD                                |   |
| Street:                  | Stempelstraße 6                    |   |
| Place:                   | D-47167 Duisburg                   |   |
| Telephone:               | 0203/5194-0                        | Telefax:0203/5194-290                   |
| E-mail:                  | info@analytichem.de                |   |
| Contact person:          | Abteilung Produktsicherheit        | Telephone:0203/5194-107/117             |
| E-mail:                  | produktsicherheit@analytichem.de   |   |
| Internet:                | www.analytichem.de                 |   |
| Responsible Department:  | Abteilung Produktsicherheit        |   |
| 1.4. Emergency telephone | For Hazardous Materials [or Danger | ous Goods] Incidents Spill, Leak, Fire, |
| number:                  | Exposure, or Accident Call CHEMTF  | REC Day or Night Within USA and Canada: |
|                          | 1-800-424-9300 Outside USA and C   | anada: +1 703-741-5970 (collect calls   |
|                          | accepted)                          | ,                                       |

### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Met. Corr. 1; H290 Skin Irrit. 2; H315 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

# Regulation (EC) No 1272/2008

| Hazard components for labelling |
|---------------------------------|
| nitric acid                     |

Signal word:

Pictograms:



Danger

# Hazard statements

H290 H315 May be corrosive to metals. Causes skin irritation.



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|---------------------------|---|--------------|
| H318                      | Causes serious eye damage.  |              |
| Precautionary statemen    | Its   |              |
| P280                      | Wear protective gloves/protective clothing/eye protection/face protection/hearing<br>protection.                                    |              |
| P305+P351+P338            | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if<br>present and easy to do. Continue rinsing. |              |
| P302+P352                 | IF ON SKIN: Wash with plenty of water and soap.   |              |
| P310                      | Immediately call a POISON CENTER/doctor.  |              |
| P390                      | Absorb spillage to prevent material damage.   |              |

#### 2.3. Other hazards

No data available

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

#### 3.2. Mixtures

#### Chemical characterization

Mixtures in aqueous solution

#### **Relevant ingredients**

| CAS No    | Chemical name                                 | Chemical name   |                  |  |  |  |  |
|-----------|---|---|------------------|--|--|--|--|
|           | EC No   | Index No  | REACH No         |  |  |  |  |
|           | Classification (Regulation (EC) No 1272/2008) |   |                  |  |  |  |  |
| 7697-37-2 | nitric acid                                   | nitric acid   |                  |  |  |  |  |
|           | 231-714-2                                     | 007-030-00-3  | 01-2119487297-23 |  |  |  |  |
|           | Ox. Liq. 3, Met. Corr. 1,<br>EUH071           | Ox. Liq. 3, Met. Corr. 1, Acute Tox. 3, Skin Corr. 1A, Eye Dam. 1; H272 H290 H331 H314 H318<br>EUH071 |                  |  |  |  |  |

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   |               |          |  |  |
| 7697-37-2 | 231-714-2 nitric acid  |               |          |  |  |
|           | inhalation: ATE 2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20<br>- 100 Skin Corr. 1B; H314: >= 5 - < 20 |               |          |  |  |

#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

General information

# No data available

# After inhalation

Provide fresh air. Call a doctor if you feel unwell.

## After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.

# After contact with eyes

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.



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

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Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

# After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Irritant

Methaemoglobinaemia

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

No data available

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

### 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

# Unsuitable extinguishing media

no restriction

### 5.2. Special hazards arising from the substance or mixture

Non-combustible liquids Hazardous combustion products In case of fire may be liberated: Nitrogen oxides (NOx) Metal oxide smoke, toxic

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Avoid contact with skin, eyes and clothes.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

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

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

#### General advice

Corrosive to metals.

#### For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Consult an expert Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

# For containment

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



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

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#### Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

# 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

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Use personal protection equipment. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol. Use extractor hood (laboratory).

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

### Further information on handling

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Corrosive to metals. Unsuitable container/equipment material: Metal The product develops hydrogen in an aqueous solution in contact with metals.

# Hints on joint storage

national regulations

#### Further information on storage conditions

Keep container tightly closed.

#### 7.3. Specific end use(s)

Laboratory chemicals

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

#### 8.1. Control parameters

### **Occupational exposure limits**

| CAS No    | Substance   | ppm | mg/m³ | fib/cm³ | Category      | Origin |
|-----------|-------------|-----|-------|---------|---------------|--------|
| 7697-37-2 | Nitric acid | 1   | 2.6   |         | STEL (15 min) |        |



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### 8.2. Exposure controls

### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

goggles Wear eye/face protection.

#### Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact

Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

### **Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

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

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

| Physical state:                            | Liquid    |                   |
|--|-----------|-------------------|
| Colour:                                    | clear     |                   |
| Odour:                                     | odourless |                   |
| Melting point/freezing point:              |           | No data available |
| Boiling point or initial boiling point and |           | No data available |
| boiling range:                             |           |                   |
| Flammability:                              |           | No data available |
| Lower explosion limits:                    |           | No data available |
| Upper explosion limits:                    |           | No data available |
| Flash point:                               |           | No data available |



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| Auto-ignition temperature:                        | No data available                                |              |
| Decomposition temperature:                        | No data available                                |              |
| pH-Value:   | acidic   |              |
| Viscosity / kinematic:                            | No data available                                |              |
| Water solubility:                                 | completely miscible                              |              |
| Solubility in other solvents                      |  |              |
| No data available                                 |  |              |
| Partition coefficient n-octanol/water:            | No data available                                |              |
| Vapour pressure:                                  | No data available                                |              |
| Vapour pressure:                                  | No data available                                |              |
| Density:  | No data available                                |              |
| Bulk density:                                     | No data available                                |              |
| Relative vapour density:                          | No data available                                |              |
| 9.2. Other information                            |  |              |
| Information with regard to physical hazard classe | S  |              |
| Explosive properties                              |  |              |
| No data available                                 |  |              |
| Sustained combustibility:                         | No data available                                |              |
| Self-ignition temperature                         |  |              |
| Solid:  | No data available                                |              |
| Gas:  | No data available                                |              |
| Oxidizing properties                              |  |              |
| Oxidizing   |  |              |
| Other safety characteristics                      |  |              |
| Evaporation rate:                                 | No data available                                |              |
| Solvent separation test:                          | No data available                                |              |
| Solvent content:                                  | No data available                                |              |
| Solid content:                                    | No data available                                |              |
| Sublimation point:                                | No data available                                |              |
| Softening point:                                  | No data available                                |              |
| Pour point:                                       | No data available                                |              |
| No data available:                                |  |              |
| Viscosity / dynamic:                              | No data available                                |              |
| Flow time:  | No data available                                |              |
| Further Information                               |  |              |
| Corrosive to metals.                              |  |              |
| SECTION 10: Stability and reactivity              |  |              |

### 10.1. Reactivity

Corrosive to metals.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

Alkali (lye)

The product develops hydrogen in an aqueous solution in contact with metals.

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Metal

The product develops hydrogen in an aqueous solution in contact with metals.



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### 10.6. Hazardous decomposition products

In case of fire may be liberated:

**SECTION 5: Firefighting measures** 

### Further information

No data available

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

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

#### Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

#### Acute toxicity

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

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation

dust/mist) > 5 mg/l

| CAS No    |                   |               |         |        |        |  |  |  |
|-----------|-------------------|---------------|---------|--------|--------|--|--|--|
|           | Exposure route    | Dose          | Species | Source | Method |  |  |  |
| 7697-37-2 | nitric acid       |               |         |        |        |  |  |  |
|           | inhalation vapour | ATE 2,65 mg/l |         |        |        |  |  |  |

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

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

#### Aspiration hazard

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

#### Specific effects in experiment on an animal

There are no data available on the mixture itself.

#### Additional information on tests

There are no data available on the mixture itself.

#### **Practical experience**

There are no data available on the mixture itself.

### 11.2. Information on other hazards

#### Other information

There are no data available on the mixture itself.

### Further information

There are no data available on the mixture itself.

# **SECTION 12: Ecological information**



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# 12.1. Toxicity

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

| CAS No    | Chemical name           |                |          |           |  |   |  |
|-----------|-------------------------|----------------|----------|-----------|--|---|--|
|           | Aquatic toxicity        | Dose           |          | [h]   [d] | Species  | Source  | Method   |
| 7697-37-2 | nitric acid             |                |          |           |  |   |  |
|           | Acute fish toxicity     | LC50<br>mg/l   | 1559     | 96 h      | Topeka shiner  | Environmental<br>Toxicology and<br>Chemistry, | other: ASTM<br>E729-26                         |
|           | Fish toxicity           | NOEC           | 268 mg/l |           | juvenile Topeka shiner<br>and with juvenile<br>Fathead m | Study report<br>(2009)                        | Growth tests<br>estimated the test<br>chemical |
|           | Algae toxicity          | NOEC<br>mg/l   | > 419    | -         | several benthic<br>diatoms; see results                  | Marine Biology<br>43:307-315 (1977)           | Ten cultures of<br>benthic diatoms<br>were iso |
|           | Acute bacteria toxicity | EC50<br>mg/l() | > 1000   | 3 h       | Activated sludge   | Study report<br>(2008)                        | OECD Guideline<br>209                          |

### 12.2. Persistence and degradability

There are no data available on the mixture itself.

### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

### 12.4. Mobility in soil

There are no data available on the mixture itself.

### 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Endocrine disrupting properties

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

Harmful effect due to pH shift.

Forms corrosive mixtures with water even if diluted.

### **Further information**

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

### Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

# **SECTION 14: Transport information**

#### Land transport (ADR/RID)

| 14.1. UN number or ID number:  | UN 3264   |
|--------------------------------|---|
| 14.2. UN proper shipping name: | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid) |



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| 14.3. Transport hazard class(es):   | 8   |              |  |  |  |
| 14.4. Packing group:  | III   |              |  |  |  |
| Hazard label:   | 8   |              |  |  |  |
| Classification code:  | C1  |              |  |  |  |
| Special Provisions:   | 274   |              |  |  |  |
| Limited quantity:   | 5 L   |              |  |  |  |
| Excepted quantity:  | E1  |              |  |  |  |
| Transport category:   | 3   |              |  |  |  |
| Hazard No:  | 80  |              |  |  |  |
| Tunnel restriction code:  | E   |              |  |  |  |
| Inland waterways transport (ADN)  |   |              |  |  |  |
| 14.1. UN number or ID number:   | UN 3264   |              |  |  |  |
| 14.2. UN proper shipping name:  | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid) |              |  |  |  |
| 14.3. Transport hazard class(es):   | 8   |              |  |  |  |
| 14.4. Packing group:  | III   |              |  |  |  |
| Hazard label:   | 8   |              |  |  |  |
| Classification code:  | C1  |              |  |  |  |
| Special Provisions:   | 274   |              |  |  |  |
| Limited quantity:   | 5 L   |              |  |  |  |
| Excepted quantity:  | E1  |              |  |  |  |
| Marine transport (IMDG)   |   |              |  |  |  |
| 14.1. UN number or ID number:   | UN 3264   |              |  |  |  |
| 14.2. UN proper shipping name:  | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid) |              |  |  |  |
| 14.3. Transport hazard class(es):   | 8   |              |  |  |  |
| 14.4. Packing group:  |   |              |  |  |  |
| Hazard label:   | 8   |              |  |  |  |
| Special Provisions:   | 223, 274  |              |  |  |  |
| Limited quantity:   | 5 L   |              |  |  |  |
| Excepted quantity:  | E1  |              |  |  |  |
| EmS:  | F-A, S-B  |              |  |  |  |
| Air transport (ICAO-TI/IATA-DGR)  |   |              |  |  |  |
| 14.1. UN number or ID number:   | UN 3264   |              |  |  |  |
| 14.2. UN proper shipping name:  | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid) |              |  |  |  |
| 14.3. Transport hazard class(es):   | 8   |              |  |  |  |
| 14.4. Packing group:  | u<br>III  |              |  |  |  |
| Hazard label:   | 8   |              |  |  |  |
| Special Provisions:   | A3 A803   |              |  |  |  |
| Limited quantity Passenger:   | 1L  |              |  |  |  |
| Passenger LQ:   | Y841  |              |  |  |  |
| Excepted quantity:  | E1  |              |  |  |  |
| IATA-packing instructions - Passenger:                                      | 852   |              |  |  |  |
| IATA-max. quantity - Passenger:   | 5 L   |              |  |  |  |
| IATA-packing instructions - Cargo:  | 856   |              |  |  |  |
| IATA-max. quantity - Cargo:   | 60 L  |              |  |  |  |
| 14.5. Environmental hazards   |   |              |  |  |  |
| ENVIRONMENTALLY HAZARDOUS:  | No  |              |  |  |  |
| SECTION 15: Regulatory information  |   |              |  |  |  |

#### SECTION 15. Regulatory information

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

# EU regulatory information

# Restrictions on use (REACH, annex XVII):



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

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#### Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

#### National regulatory information

| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile |
|--------------------------|---|
|                          | work protection guideline' (94/33/EC).                                      |
| Water hazard class (D):  | 1 - slightly hazardous to water   |

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

#### Changes

This data sheet contains changes from the previous version in section(s): 12.

### Abbreviations and acronyms

Ox. Liq: Oxidising liquid Met. Corr: Substance or mixture corrosive to metals Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage

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

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Met. Corr. 1; H290  | On basis of test data    |
| Skin Irrit. 2; H315 | Calculation method       |
| Eve Dam. 1: H318    | Calculation method       |

#### Relevant H and EUH statements (number and full text)

| H272   | May intensify fire; oxidiser.            |
|--------|--|
| H290   | May be corrosive to metals.              |
| H314   | Causes severe skin burns and eye damage. |
| H315   | Causes skin irritation.                  |
| H318   | Causes serious eye damage.               |
| H331   | Toxic if inhaled.                        |
| EUH071 | Corrosive to the respiratory tract.      |
|        |  |

#### **Further Information**

Provide appropriate information, instructions and training to users

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. 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.

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