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

- **1.1 Product identifier**
  - Trade name: SÜDRANOL® 250
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - No further relevant information available.
- **Application of the substance / the mixture** Additive
- **1.3 Details of the supplier of the safety data sheet**
  - Manufacturer/Supplier:
    - Süddeutsche Emulsions-Chemie GmbH
    - Rhenaniastraße 46
    - D-68199 Mannheim, Germany
    - E-Mail: info@munzing.com
    - Tel.: +49 (0) 621/84487-0
- **Further information obtainable from:**
  - Product Safety Department
  - E-mail (MSDS): mds@munzing.com
- **1.4 Emergency telephone number:** For Chemical Emergencies: CHEMTREC: +1 703 741 5970

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**
    - Skin Sens. 1 H317 May cause an allergic skin reaction.
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**
    - The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

![GHS07](image)

- **Signal word** Warning
- **Hazard-determining components of labelling:**
  - Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
  - 1,2-benzisothiazol-3(2H)-one
- **Hazard statements**
  - H317 May cause an allergic skin reaction.
- **Precautionary statements**
  - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P280 Wear protective gloves.
  - P362+P364 Take off contaminated clothing and wash it before reuse.
  - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
  - P321 Specific treatment (see on this label).
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
  - **PBT:** None.

(Contd. on page 2)
Safety data sheet  
according to 1907/2006/EC, Article 31

Trade name: SÜDRANOL® 250

· vPoB: None.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures
  · Description: Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>CAS: 9005-00-9</th>
<th>Stearyl alcohol, ethoxylated</th>
<th>Aquatic Acute 1, H400; Acute Tox. 4, H502; Aquatic Chronic 3, H412</th>
<th>5-%&lt;10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS: 55965-84-9</td>
<td>Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</td>
<td>Acute Tox. 5, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Skin Sens. 1, H317</td>
<td>&lt;0.05%</td>
</tr>
<tr>
<td>EC number: 611-341-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reg.nr.: 01-2120764691-48</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

· 4.1 Description of first aid measures
  · General information: Immediately remove any clothing soiled by the product.
  · After inhalation:
    Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
  · After skin contact: Immediately wash with water and soap and rinse thoroughly.
  · After eye contact:
    Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  · After swallowing: If symptoms persist consult doctor.
  · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
  · 4.3 Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media
  · Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  · Use fire extinguishing methods suitable to surrounding conditions.
  · For safety reasons unsuitable extinguishing agents: Water with full jet
  · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
  · 5.3 Advice for firefighters
    · Protective equipment: Do not inhale explosion gases or combustion gases.
    · Additional information
      Product contains water and is non-combustible.
      Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures
  · Wear protective clothing.

(Contd. on page 3)
SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Keep away from heat and direct sunlight.
- Information about fire - and explosion protection:
  Protect from heat.
  The product is not flammable.

- 7.2 Conditions for safe storage, including any incompatibilities
  Storage:
  Requirements to be met by storerooms and receptacles: Store in a cool location.
  Information about storage in one common storage facility: Not required.
  Further information about storage conditions:
  Protect from frost.
  Store in cool, dry conditions in well sealed receptacles.

- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

- 8.1 Control parameters
  Ingredients with limit values that require monitoring at the workplace:
  The product does not contain any relevant quantities of materials with critical values that have to be
  monitored at the workplace.
  Additional information: The lists valid during the making were used as basis.

- 8.2 Exposure controls
  Personal protective equipment:
  General protective and hygienic measures:
  The usual precautionary measures are to be adhered to when handling chemicals.
  Avoid contact with the eyes and skin.
  Respiratory protection: Use suitable respiratory protective device only when aerosol or mist is formed.

- Protection of hands:
  Only use chemical-protective gloves with CE-labelling of category III.
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the
  degradation

- Material of gloves
  Nitrile rubber, NBR

(Contd. of page 4)
Recommended thickness of the material: ≥ 0.4 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses
Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- General Information
  - Appearance:
    - Form: Fluid
    - Colour: Yellowish
  - Odour: Specific type
  - Odour threshold: Not determined.

- pH-value (20 g/l) at 20 °C: ≈ 9.0 (DIN ISO 976)

- Change in condition
  - Melting point/freezing point: Undetermined.
  - Initial boiling point and boiling range: ≈ 100 °C (Water)

- Flash point: Not applicable.

- Flammability (solid, gas): Not applicable.

- Decomposition temperature: Not determined.

- Auto-ignition temperature: Product is not selfigniting.

- Explosive properties: Product does not present an explosion hazard.

- Explosion limits:
  - Oxidising properties: None.

- Vapour pressure: Not determined.

- Density at 20 °C: ≈ 0.98 g/cm³ (DIN EN ISO 2811-1)
  - Evaporation rate: Not determined.

- Solubility in / Miscibility with water: Fully miscible.

- Partition coefficient: n-octanol/water: Not determined.

- Viscosity:
  - Dynamic at 20 °C: < 1000 mPas (DIN EN ISO 3219)
  - Kinematic: Not determined.

- Solvent content:
  - Water: ≈ 70 %
Trade name: SÜDRANOL® 250

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
  - Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials** No further relevant information available.
- **10.6 Hazardous decomposition products** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
  - Acute toxicity Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:**

| CAS: 55965-84-9 Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) |
|---|---|
| Oral LD50 | 49.6-75 mg/kg (rat) |
| Dermal LD50 | 141 mg/kg (rabbit) |
| Inhalative LC50/4h | 0.33 mg/l (rat) (Aerosol) |

- **Primary irritant effect:**
  - 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.
  - Respiratory or skin sensitisation
    May cause an allergic skin reaction.
  - CMR effects (carcinogenicity, mutagenicity and toxicity 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.

**SECTION 12: Ecological information**

- **12.1 Toxicity**

**Aquatic toxicity:**

| CAS: 55965-84-9 Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) |
|---|---|
| EC50 | 0.018 mg/l (algae) (Pseudokirchneriella subcapitata / 72 h) |
| | 4.5 mg/l (bacteria) (activated sludge) |
| | 0.16 mg/l (daphnia) (Daphnia magna / 48 h) |
| LC50 | 0.19 mg/l (fish) (Onchorhynchus mykiss / 96 h) |

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fullfilling the No further relevant information available.

Ecotoxical effects:

- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
- Toxic for aquatic organisms
- Not a dangerous good to the above specifications.

Recommendation: according to 1907/2006/EC, Article 31

General notes:

- Do not release untreated into natural waters.
- Low concentrations. Do not release untreated into natural waters.
- According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.

SECTION 14: Transport information

- 14.1 UN-Number
  ADR/RID/ADN, ADN, IMDG, IATA Void

- 14.2 UN proper shipping name
  ADR/RID/ADN, ADN, IMDG, IATA Void

- 14.3 Transport hazard class(es)
  ADR/RID/ADN, ADN, IMDG, IATA Class Void

- 14.4 Packing group
  ADR/RID/ADN, IMDG, IATA Void

- 14.5 Environmental hazards:
  Marine pollutant: No

- 14.6 Special precautions for user
  Not applicable.

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
  Not applicable.

Transport/Additional information: Not a dangerous good to the above specifications.
SECTION 15: Regulatory information

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

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:

- Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
  H301 Toxic if swallowed.
  H302 Harmful if swallowed.
  H311 Toxic in contact with skin.
  H314 Causes severe skin burns and eye damage.
  H317 May cause an allergic skin reaction.
  H330 Fatal if inhaled.
  H400 Very toxic to aquatic life.
  H410 Very toxic to aquatic life with long lasting effects.
  H412 Harmful to aquatic life with long lasting effects.

- Department issuing SDS:
  Product Safety Department
  E-Mail: msls@munzing.com

- 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)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  Acute Tox. 3: Acute toxicity – Category 3
  Acute Tox. 4: Acute toxicity – Category 4
  Acute Tox. 2: Acute toxicity – Category 2
  Skin Corr. 1B: Skin corrosion/irritation – Category 1B
  Skin Sens. 1: Skin sensitisation – Category 1
  Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
  Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
  Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3