



# Minimum Information for an SDS

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1. **Identification of the substance or mixture and of the supplier**
- GHS product identifier.
  - Other means of identification.
  - Recommended use of the chemical and restrictions on use.
  - Supplier's details (including name, address, phone number, etc.).
  - Emergency phone number.
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2. **Hazards identification**
- GHS classification of the substance/mixture and any national or regional information.
  - GHS label elements, including precautionary statements. (Hazard symbols may be provided as a graphical reproduction of the symbols in black and white or the name of the symbol, e.g., flame, skull and crossbones.)
  - Other hazards which do not result in classification (e.g., dust explosion hazard) or are not covered by the GHS.
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3. **Composition/information on ingredients**
- Substance**
- Chemical identity.
  - Common name, synonyms, etc.
  - CAS number, EC number, etc.
  - Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance.
- Mixture**
- The chemical identity and concentration or concentration ranges of all ingredients which are hazardous within the meaning of the GHS and are present above their cutoff levels.
- NOTE: For information on ingredients, the competent authority rules for CBI take priority over the rules for product identification.***
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4. **First aid measures**
- Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion.
  - Most important symptoms/effects, acute and delayed.
  - Indication of immediate medical attention and special treatment needed, if necessary.
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<b>5. Firefighting measures</b>	<ul style="list-style-type: none"> <li>• Suitable (and unsuitable) extinguishing media.</li> <li>• Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products).</li> <li>• Special protective equipment and precautions for firefighters.</li> </ul>
<b>6. Accidental release measures</b>	<ul style="list-style-type: none"> <li>• Personal precautions, protective equipment and emergency procedures.</li> <li>• Environmental precautions.</li> <li>• Methods and materials for containment and cleaning up.</li> </ul>
<b>7. Handling and storage</b>	<ul style="list-style-type: none"> <li>• Precautions for safe handling.</li> <li>• Conditions for safe storage, including any incompatibilities.</li> </ul>
<b>8. Exposure controls/personal protection</b>	<ul style="list-style-type: none"> <li>• Control parameters, e.g., occupational exposure limit values or biological limit values.</li> <li>• Appropriate engineering controls.</li> <li>• Individual protection measures, such as personal protective equipment.</li> </ul>
<b>9. Physical and chemical properties</b>	<ul style="list-style-type: none"> <li>• Appearance (physical state, color, etc.).</li> <li>• Odor.</li> <li>• Odor threshold.</li> <li>• pH.</li> <li>• Melting point/freezing point.</li> <li>• Initial boiling point and boiling range.</li> <li>• Flash point.</li> <li>• Evaporation rate.</li> <li>• Flammability (solid, gas).</li> <li>• Upper/lower flammability or explosive limits.</li> <li>• Vapor pressure.</li> <li>• Vapor density.</li> <li>• Relative density.</li> <li>• Solubility(ies).</li> <li>• Partition coefficient: n-octanol/water.</li> <li>• Autoignition temperature.</li> <li>• Decomposition temperature.</li> </ul>
<b>10. Stability and reactivity</b>	<ul style="list-style-type: none"> <li>• Chemical stability.</li> <li>• Possibility of hazardous reactions.</li> <li>• Conditions to avoid (e.g., static discharge, shock or vibration).</li> <li>• Incompatible materials.</li> <li>• Hazardous decomposition products.</li> </ul>

<b>11. Toxicological information</b>	<p>Concise but complete and comprehensible description of the various toxicological (health) effects and the available data used to identify those effects, including:</p> <ul style="list-style-type: none"> <li>• Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact);</li> <li>• Symptoms related to the physical, chemical and toxicological characteristics;</li> <li>• Delayed and immediate effects and also chronic effects from short- and long-term exposure;</li> <li>• Numerical measures of toxicity (such as acute toxicity estimates).</li> </ul>
<b>12. Ecological information</b>	<ul style="list-style-type: none"> <li>• Ecotoxicity (aquatic and terrestrial, where available).</li> <li>• Persistence and degradability.</li> <li>• Bioaccumulative potential.</li> <li>• Mobility in soil.</li> <li>• Other adverse effects.</li> </ul>
<b>13. Disposal considerations</b>	<ul style="list-style-type: none"> <li>• Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.</li> </ul>
<b>14. Transport information</b>	<ul style="list-style-type: none"> <li>• UN Number.</li> <li>• UN Proper shipping name.</li> <li>• Transport Hazard class(es).</li> <li>• Packing group, if applicable.</li> <li>• Marine pollutant (Yes/No).</li> <li>• Special precautions which a user needs to be aware of or needs to comply with regarding transport or conveyance either within or outside their premises.</li> </ul>
<b>15. Regulatory information</b>	<ul style="list-style-type: none"> <li>• Safety, health and environmental regulations specific for the product in question.</li> </ul>
<b>16. Other information including information on preparation and revision of the SDS</b>	