

## Annex M – Material Safety Data Sheet and/or Globally Harmonized System (GHS) of Classification of Controlled Chemicals

The MSDS and/or GHS-SDS shall contain the following minimum information where applicable and available as prescribed herein

Item #	Heading	Information
<u>1</u>	Identification of the substance or mixture and of the supplier	<ul style="list-style-type: none"> <li>• GHS product identifier.</li> <li>• Other means of identification.</li> <li>• Recommended use of the chemical and restrictions on use.</li> <li>• Supplier's details (including name, address, phone number etc).</li> <li>• Emergency phone number</li> </ul>
<u>2</u>	Hazards identification	<ul style="list-style-type: none"> <li>• GHS classification of the substance/mixture and any national or regional information.</li> <li>• 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.)</li> <li>• Other hazards which do not result in classification (e.g. dust explosion)</li> </ul>
<u>3.</u>	Composition/information on ingredients	<p><b>Substance</b></p> <ul style="list-style-type: none"> <li>• Chemical identity.</li> <li>• Common name, synonyms, etc.</li> <li>• CAS number, EC number, etc.</li> <li>• Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance.</li> </ul> <p><b>Mixture</b></p> <ul style="list-style-type: none"> <li>• 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 cut-off levels.</li> </ul> <p><i><b>NOTE:</b> For information on ingredients, the competent authority rules for CBI take priority over the rules for product identification.</i></p>
<u>4.</u>	First aid measures	<ul style="list-style-type: none"> <li>• Description of necessary measures, subdivided according to the different</li> </ul>

		<p>routes of exposure, i.e. inhalation, skin and eye contact and ingestion.</p> <ul style="list-style-type: none"> <li>• Most important symptoms/effects, acute and delayed.</li> <li>• Indication of immediate medical attention and special treatment needed, if necessary</li> </ul>
5.	Firefighting measures	<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>
6.	Accidental release measures	<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>
7.	Handling and Storage	<ul style="list-style-type: none"> <li>• Precautions for safe handling.</li> <li>• Conditions for safe storage, including any incompatibilities.</li> </ul>
8.	Exposure controls/personal protection.	<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>
9.	Physical and chemical properties	<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>• Auto-ignition temperature.</li> <li>• Decomposition temperature.</li> </ul>
10.	Stability and reactivity	<ul style="list-style-type: none"> <li>• Chemical stability.</li> <li>• Possibility of hazardous reactions.</li> </ul>

		<ul style="list-style-type: none"> <li>• Conditions to avoid (e.g. static discharge, shock or vibration).</li> <li>• Incompatible materials.</li> <li>• Hazardous decomposition products.</li> </ul>
11.	Toxicological information	<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>
12.	Ecological information	<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>
13.	Disposal considerations	<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>
14.	Transport information	<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 in connection with transport or conveyance either within or outside their premises.</li> </ul>
15.	Regulatory information	<ul style="list-style-type: none"> <li>• Safety, health and environmental regulations specific for the product in question.</li> </ul> <p><i>NOTE: indicate whether controlled substance (Controlled Precursor and Essential Chemical or Dangerous Drug)</i></p>
16.	Other information including information on preparation and revision of the SDS	