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

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<th>Item #</th>
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<th>Information</th>
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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 |
| 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) |
| 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 cut-off levels.  
**NOTE:** For information on ingredients, the competent authority rules for CBI take priority over the rules for product identification. |
| 4      | First aid measures | • Description of necessary measures, subdivided according to the different |
**5. Firefighting measures**
- Suitable (and unsuitable) extinguishing media.
- Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products).
- Special protective equipment and precautions for firefighters.

**6. Accidental release measures**
- Personal precautions, protective equipment and emergency procedures.
- Environmental precautions.
- Methods and materials for containment and cleaning up.

**7. Handling and Storage**
- Precautions for safe handling.
- Conditions for safe storage, including any incompatibilities.

**8. Exposure controls/personal protection.**
- Control parameters e.g. occupational exposure limit values or biological limit values.
- Appropriate engineering controls.
- Individual protection measures, such as personal protective equipment.

**9. Physical and chemical properties**
- Appearance (physical state, color etc).
- Odor.
- Odor threshold.
- PH.
- Melting point/freezing point.
- Initial boiling point and boiling range.
- Flash point.
- Evaporation rate.
- Flammability (solid, gas).
- Upper/lower flammability or explosive limits.
- Vapor pressure.
- Vapor density.
- Relative density.
- Solubility(ies).
- Partition coefficient: n-octanol/water.
- Auto-ignition temperature.
- Decomposition temperature.

**10. Stability and reactivity**
- Chemical stability.
- Possibility of hazardous reactions.
| 11. | Toxicological information | **Concise but complete and comprehensible description of the various toxicological (health) effects and the available data used to identify those effects, including:**  
- information on the likely routes of exposure (inhalation, ingestion, skin and eye contact);  
- Symptoms related to the physical, chemical and toxicological characteristics;  
- Delayed and immediate effects and also chronic effects from short- and long-term exposure;  
- Numerical measures of toxicity (such as acute toxicity estimates). |
| 12. | Ecological information | **Ecotoxicity (aquatic and terrestrial, where available).**  
- Persistence and degradability.  
- Bioaccumulative potential.  
- Mobility in soil.  
- Other adverse effects. |
| 13. | Disposal considerations | **Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.** |
| 14. | Transport information | **UN number.**  
- UN Proper shipping name.  
- Transport Hazard class(es).  
- Packing group, if applicable.  
- Marine pollutant (Yes/No).  
- 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. |
| 15. | Regulatory information | **Safety, health and environmental regulations specific for the product in question.**  
*NOTE: indicate whether controlled substance (Controlled Precursor and Essential Chemical or Dangerous Drug)* |
| 16. | Other information including information on preparation and revision of the SDS |