**Safety Data Sheet (SDS) Checklist**

This SDS Checklist was developed to provide ACAA member companies the information necessary to develop a Safety Data Sheet (SDS) for FGD Gypsum.

When used in concert with the SDS Guidance Document and the SDS Template for FGD Gypsum, the checklist can be used by ACAA Member Companies to develop the SDSs required based on Company and specific FGD gypsum composition. Prior to developing an SDS using this Guidance Document and associated Appendices, confirm that the FGD gypsum formulation meets the composition specifications detailed in Appendix C (Composition Summary). Should the FGD gypsum evaluated have additional impurities present, or have impurities above the maximum percentage identified, the Guidance should not be used until an assessment of compositional variations is evaluated to confirm that those differences do not result in additional GHS classifications of the FGD gypsum.

This checklist specifies the information required/recommended for inclusion in the SDS for FGD gypsum per 29 CFR 1910.1200, the OSHA recognized ANSI Z400.1 Standard (Hazard Evaluation and Safety Data Sheet and Precautionary Labeling Preparation Standard), or recommendations based on expert judgement.

A SDS Template that can be used to communicate the necessary information detailed on a Section by Section basis is available as Appendix B to the SDS Guidance Document.

Additional information and further guidance on how to populate the SDS, including appropriate information to be provided can be found in the SDS Guidance Document.

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| **General SDS Development Information** |

* Although specifically required in Section 16, it is recommended that the date of SDS development/update and the SDS Version (i.e., New or Revision number) be included in the SDS Header
* Paginate the SDS
* Include a Legal Disclaimer at the end of the SDS Section 16 (last section)

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| SECTION 1. IDENTIFICATION |

Provide the following information in the SDS. See the SDS Guidance Document or the Appendix B: FGD Gypsum SDS Template for additional detail on the required information.

* Product identifier (name used on label), common names/synonyms
* Name, address, email and telephone number of the manufacturer, packager or supplier
* Emergency telephone number and any restrictions to the availability
* Recommended uses
* Any restricted uses

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| **SECTION 2. HAZARDS IDENTIFICATION** |

Provide the following information in the SDS. See the SDS Guidance Document or Appendix B: FGD Gypsum SDS Template to select the data applicable to the product composition.

* Hazard classification
* Signal word
* Hazard statements
* Pictograms
* Precautionary statements
* Hazards not otherwise classified

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| **SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS** |

Provide the following information on the composition of the product. See the SDS Guidance Document or Appendix B: FGD Gypsum SDS Template to select appropriate substances and related information from the list of identified hazardous constituents.

* Disclose substances that:
	+ Are present above their threshold limits or;
	+ Result in a classification of the final product regardless of their respective threshold limits.
* Provide the following information on those substances:
	+ Substance name
	+ Chemical Abstracts Service (CAS) number
	+ Percentage of the impurities in the FGD gypsum. A range may be provided.

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| **SECTION 4. FIRST AID MEASURES** |

See the SDS Guidance Document or Appendix B: FGD Gypsum SDS Template for the appropriate information to populate the section.

* Describe the first aid measures organized by relevant route of exposure (inhalation, skin and eye contact, ingestion)
* Provide information on the most important health effects and symptoms (both acute and delayed)
* Indicate information related to the need for immediate medical attention and special treatment needed, when necessary

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| **SECTION 5. FIREFIGHTING MEASURES** |

See the SDS Guidance Document or the Appendix B: FGD Gypsum SDS Template for the appropriate information to populate the section.

* Provide information on suitable and unsuitable extinguishing media
* Identify special hazards arising from the substance or mixture, including hazardous combustion products
* Provide any special advice for firefighters

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| **SECTION 6. ACCIDENTAL RELEASE MEASURES** |

See the SDS Guidance Document or Appendix B: FGD Gypsum SDS Template for the appropriate information to populate the section.

* Specify any personal precautions, protective equipment and emergency procedures
* Indicate any environmental precautions
* Provide information on the methods and materials necessary for containment and cleanup procedures

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| **SECTION 7. HANDLING AND STORAGE** |

See the SDS Guidance Document or Appendix B: FGD Gypsum SDS Template for the appropriate information to populate the section.

* Provide precautions for safe handling (e.g., protective measures, measures to prevent fire, aerosol and dust generation, measures to protect the environment, and advice on general occupational hygiene)
* Indicate proper storage conditions including any incompatibilities and specific storage requirements or ventilation requirements

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| **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION** |

Provide information on the Occupation Exposure Limits (OELs) associated with substances disclosed in Section 2 of the SDS. See the SDS Guidance Document or Appendix B: FGD Gypsum SDS Template for the list of OEL’s identified based on identified FGD components or impurities.

* Provide appropriate occupational exposure limits for particulates not otherwise regulated (PNOR) and substances disclosed in Section 3 based on manufacture/market jurisdiction. OELs to be provided, where available include OSHA permissible exposure limits (PEL), American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values (TLV), California EPA PEL
* Detail appropriate exposure controls, including engineering controls, personal protective equipment, and environmental exposure controls

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| **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES** |

Provide information on the following physical and chemical properties. If no information is available or if the data is not applicable, do not delete the parameter; rather, note that data is “Not available” or that the parameter is “Not applicable”. See the SDS Guidance Document or Appendix B: FGD Gypsum SDS Template for more information.

* Odor
* Odor threshold
* pH
* Melting point/freezing point
* Initial boiling point and boiling range
* Flash point
* Evaporation rate
* Flammability
* Upper/lower flammability or explosive limits
* Vapor pressure
* Vapor density
* Relative density
* Solubility(ies)
* Partition coefficient: n-octanol/water
* Auto-ignition temperature
* Decomposition temperature
* Viscosity

Additional information such as particle size, etc. may also be provided.

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| **SECTION 10. STABILITY AND REACTIVITY** |

See the SDS Guidance Document or Appendix B: FGD Gypsum SDS Template for the appropriate information to provide in the section.

* Reactivity
* Chemical stability
* Possibility of hazardous reactions
* Conditions to avoid
* Incompatible materials
* Hazardous decomposition products

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| **SECTION 11. TOXICOLOGICAL INFORMATION** |

Available information on the recognized human health hazard classification categories should be provided. Where data is not available or not known, that should be indicated.

See the SDS Guidance Document or Appendix B: FGD Gypsum SDS Template, for the appropriate toxicological information to populate the section based on the FGD composition and corresponding toxicity information on the human health hazards.

The following categories should be included:

* Acute Toxicity [include information on the route of exposure (inhalation, ingestion, skin and eye contact)]
* Skin Corrosion/Irritation
* Eye Damage/Irritation
* Skin or Respiratory Sensitization
* Germ Cell Mutagenicity
* Carcinogenicity
* Reproductive Toxicity
* STOT - Single Exposure
* STOT – Repeated Exposure
* Aspiration Hazard

Note: Additional data on component substances may also be provided, but is not required; however, under carcinogenicity, it is required to declare any components (such as respirable crystalline silica) listed on the U.S. National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or as a carcinogen by OSHA.

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| **SECTION 12. ECOLOGICAL INFORMATION** |

This section is non-mandatory. Enter “No data available”or if desired, provide available data for final product and component substances following the format indicated in the SDS Guidance Document or Appendix B: FGD Gypsum SDS Template.

* Ecotoxicity data (aquatic and terrestrial, where available)
* Persistence and degradability
* Bioaccumulative potential
* Mobility in soil
* Other adverse effects

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| **SECTION 13. DISPOSAL CONSIDERATIONS** |

This section is non-mandatory; however, it is recommended that information on proper disposal, recycling or reclamation of the product be included. Refer to the SDS Guidance Document or Appendix B: FGD Gypsum SDS Template and information related to Section 8 (Exposure Controls/Personal Protection) for appropriate information.

* Reference Section 8 for safe handling precautions
* Describe appropriate disposal containers to use
* Recommend appropriate disposal methods
* Describe any physical and chemical properties that may affect disposal activities
* Include language discouraging sewage disposal

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| **SECTION 14. TRANSPORT INFORMATION** |

This section is non-mandatory; however, it is recommended to include information related to U.S. transportation (e.g., U.S. DOT) as detailed in the SDS Guidance Document or Appendix B: FGD Gypsum SDS Template.

* UN Number (4 figure identification number)
* Proper UN shipping name
* Transport hazard class(es)
* Packing group number, if applicable

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| **SECTION 15. REGULATORY INFORMATION** |

This section is not mandatory; however, it is recommended to include the following information related to the presence of the finished product and components above identified thresholds on relevant safety, health and environmental regulatory lists. Information on the recommended lists is present in the SDS Guidance or Appendix B: FGD Gypsum SDS Template.

* TSCA Inventory
* California Proposition 65 Listing
* Applicable State Right-to-Know Lists (Massachusetts, New Jersey, Pennsylvania and Rhode Island). Appropriate lists include those where the product is manufactured, packaged or distributed

Note: Additional information related to the presence of component substances on other environmental listings such as SARA 311/312, SARA 313 TRI, CWA or CAA may also be included.

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| **SECTION 16. OTHER INFORMATION** |

Populate this section with the following information to assist the user in understanding the information provided in the SDS. See the SDS Guidance Document or Appendix B: FGD Gypsum SDS Template for information that may be required to populate this section.

* Date of preparation/last revision
* The abbreviations and acronyms used in the SDS
* Other hazards including information related to the HMIS Hazard Rating System
* Legal disclaimer