



Trade name: Chemsorb FR

SECTION 1: Identification

Product identifier: Chemsorb FR: Fire Retardant
Synonyms: Chemsorb FR
Product Code Number: Not available
SDS number: CGF043
Recommended use: Solid Absorbent.
Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information:

Company Name: Matrix Management, Inc
Company Address: 655 Wheat Lane
Wood Dale, IL 60191

Company Telephone: 847-596-3010

Emergency phone number: CHEMTREC 24 HOUR EMERGENCY NUMBER:
(800) 424 9300.

SECTION 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

Physical hazards

No physical hazards for this product.

Health hazards

No health hazards for this product.

Environmental hazards

No environmental hazards for this product.

GHS Signal word: No signal word required.
GHS Hazard statement(s): No Hazard Statements required
GHS Hazard symbol(s): No Hazard Symbol required
GHS Precautionary statement(s): Not applicable
**Hazard(s) not otherwise
Classified (HNOC):** None known.
Percentage of ingredient(s) of unknown acute toxicity: Less than 15%

Other Hazards which do not result in classification: This product is not expected to produce any unusual hazards during normal use (**do not absorb hydrofluoric acid**). However, dust may be released into the air while moving/ using the product. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. Ensure adequate ventilation and avoid breathing excessive dust. Naturally occurring minerals like perlite may contain trace amounts of Respirable Crystalline Silica (*undetectable*). Because it is known that long-term inhalation of RCS can cause disabling lung disease, OSHA has published revised exposure limits. The current Action Level (AL) and Permissible Exposure Limit (PEL) as an average during 8 hours of continuous exposure are 25 mg/m³ (air), and 50 mg/m³ (air), respectively.

PBT, vPvB, SVCH, or ED criteria: The product does not known to contain any ingredients: -Which meet the PBT or vPvB criteria as laid down in Annex XIII to Regulation (EC) No 1907/2006, or which were included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or which were identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

Mixture/ Substance: Expanded Perlite as the Substance. Dedusting Blend/ Retardant as the Mixture.

Chemical name	CAS#	EINECS (EC) #	Concentration (weight %)	Classification
Sodium Potassium Aluminum Silicate (Expanded Perlite Blend). Substance	93763-70-3	n/a	80-95%	n/a
Proprietary Dedusting Blend/ Retardant. Mixture	Proprietary	n/a	10-20%	n/a

SECTION 4: First-aid Measures

Description of necessary measures:

Inhalation: Remove to fresh air. Drink water to clear throat and blow nose to evacuate dust. Seek medical attention if difficulty breathing.

Skin contact: Wash hands and skin with soap and water.

Eye contact: Do not rub eyes. Flush eyes with large quantities of water. If irritation persists consult a physician.

Ingestion: Do not induce vomiting. Rinse mouth with water. Dilute by giving 1-2 glasses of water. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed: Prolonged & repeated exposure to excessive concentrations of this product's dust or any nuisance dust can cause chronic pulmonary disease. Dust contact with eyes may cause temporary scratching or redness. This product is NOT classified as a carcinogen by NTP or IARC.

Indication of immediate medical attention and special treatment needed: There is no specific antidote and treatment should be directed at the control of symptoms and the clinical condition.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Non-Flammable. Water Only. If used to collect flammable liquids, then consult SDS(s) of liquid collected. Product will act as an extinguishing/ flame retarding medium.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: None if product unused. If used to collect flammable liquid, then consult SDS(s) of flammable liquid.
Combustion products - Fumes of Sodium Oxide

Special protective equipment and precautions for fire-fighters: None if product unused. If used to collect flammable liquid, then consult SDS(s) of flammable liquid collected.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

Environmental Precautions: Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

Methods and material for containment and cleaning up:
Sweep or vacuum and dispose of as for any inert, non-carcinogenic solid waste.

SECTION 7: Handling and Storage

Precautions for safe handling: Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8).

Conditions for safe storage, including any incompatibles: Avoid emptying bags in windy areas. Keep dry before use.

Other precautions: Bags/ Containers must be sealed prior to use. Use all contents, do not store open containers. None in unused form. After product has been used to collect liquid materials, consult SDS(s) of the liquid collected. Dispose of in accordance to local, state, federal, and international guidelines.

SECTION 8: Exposure controls/personal protection

Control Parameters:

Occupational exposure limits:

-US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Permissible Exposure Limits		
Substance- Perlite	PEL-TWA (8 hour)	PEL-STEL (15 min)
No hazardous components above the classification threshold under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.	3mg/m3	15 mg/m3
Mixture- Dedusting/ Retardant	n/a	n/a

US ACGIH Threshold Limit Values		
Substance- Perlite	TLV-TWA (8 hour)	TLV-STEL (15 min)
No hazardous components above the classification threshold under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.	3mg/m3	10mg/m3
Mixture- Dedusting/ Retardant	n/a	n/a

NIOSH Exposure Limits		
Substance- Perlite	TWA	STEL
No hazardous components above the classification threshold under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.	n/a	n/a
Mixture- Dedusting/ Retardant	n/a	n/a

Appropriate engineering controls: Use sufficient natural or mechanical ventilation to keep dust level below PEL

NOTE: Long term exposure to ANY dust may lead to long term respiratory damage. Always consult the SDS of the spilled liquid before making a choice about Personal Protective Equipment.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Eye protection in compliance with OSHA regulations are advised.

Skin and Hand protection: Wear resistant gloves impervious to the specific material handled is advised to prevent skin contact. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection: NIOSH/ OSHA approved dust mask adequate for contaminate concentrations encountered/ liquids being absorbed.

Other: If dusty conditions exist, NIOSH approved protective equipment is advisable.

Thermal hazards: No data available.

SECTION 9: Physical and chemical properties

Appearance

Physical state:	Powder
Color:	White.
Odor:	Clean Smell
Odor threshold:	No data available
pH:	6.5 – 7.5.
Melting point/freezing point:	Melting Point: 2000 °F
Initial boiling point and boiling range:	Not applicable.
Flash point:	Non-Flammable
Evaporation rate:	No data available
Flammability (solid, gas):	Non-Flammable (Inorganic Solid)
Upper/lower flammability or explosive limits	
Flammability limit – lower (%):	Not applicable
Flammability limit – upper (%):	Not applicable
Explosive limit – lower (%):	Not applicable
Explosive limit – upper (%):	Not applicable
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density(Specific gravity):	0.08 -0.20 (H ₂ O=1)
Solubility(ies):	Insoluble in water.
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available

Decomposition temperature: No data available
Viscosity: No data available

Other information:
% Volatile by volume: No data available
Pour Point: No data available

SECTION 10: Stability and Reactivity

Reactivity: Not chemically reactive.
Chemical stability: Stable under normal ambient and anticipated conditions of use.
Possibility of hazardous reactions: Hazardous reactions not anticipated.
Conditions to avoid: Avoid contact with Hydrofluoric Acid
Incompatible materials: Hydrofluoric Acid.
Hazardous decomposition Products: Hazardous decomposition products will not be produced under normal conditions of storage and use. In the presence of hydrofluoric acid, hazardous gases may form!

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation: Not an expected route of exposure.
Ingestion: Not an expected route of exposure
Skin: Not an expected route of exposure.
Eyes: Dust contact with eyes is an expected route of entry.

Symptoms related to the physical, chemical, and toxicological characteristics:

Dust contact with eyes may cause temporary scratching or redness. Pre-existing upper respiratory and lung disease such as, but not limited to bronchitis, emphysema and asthma. Transitory upper respiratory or eye irritation.

Delayed and immediate effects and chronic effects from short or long-term exposure:

Prolonged & repeated exposure to excessive concentrations of this product's dust or any nuisance dust can cause chronic pulmonary disease.

**Numerical measures of toxicity:
Ingredient Information:**

Substance	Test Type (species)	Value
No hazardous components above the classification threshold under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.	LD ₅₀ Oral	-
	LD ₅₀ Dermal	-
	LC ₅₀ Inhalation	-

Product Acute Toxicity Estimates:

Acute Oral Toxicity – no data available
Acute Dermal Toxicity - no data available
Acute Inhalation Toxicity - no data available

- Skin corrosion/irritation:** May irritate people with sensitivities or skin abrasions.
- Serious eye damage/eye irritation:** Temporary Irritation or Inflammation, long term exposure may lead to corneal opacities.
- Respiratory sensitization:** No information available on the mixture, however none of the components have been classified as a respiratory sensitizer (or are below the concentration threshold for classification).
- Skin sensitization:** No information available on the mixture, however none of the components have been classified as a skin sensitizer (or are below the concentration threshold for classification).
- Germ cell mutagenicity:** No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).
- Carcinogenicity:** No information available on the mixture, however none of the components are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.
- Reproductive toxicity:** No information available on the mixture, however none of the components have been classified for

reproductive toxicity (or are below the concentration threshold for classification).

**Specific target organ toxicity-
Single exposure:**

No information available on the mixture, however one of the components have been classified for STOT SE and ay cause respiratory irritation.

**Specific target organ toxicity-
Repeat exposure:**

No information available on the mixture, however none of the components have been classified for STOT RE (or are below the concentration threshold for classification).

Aspiration hazard:

Based upon information available on the known components, this product is not expected to be a health hazard when used under normal conditions.

Further information:

No data available.

Endocrine Disrupting Properties:

The product is not known to contain any ingredients:
-Which meet the PBT or vPvB criteria as laid down in Annex XIII to Regulation (EC) No 1907/2006, or which were included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or which were identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

SECTION 12: Ecological information

Ecotoxicity:

Product data: No data available

Ingredient Information:

Substance	Test Type	Species	Value
No hazardous components above the classification threshold under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.	LC ₅₀	Fish	No data available
	LC ₀	Aquatic Invertebrates	No data available
	LC ₅₀	Algae	No data available

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Endocrine Disrupting Properties:

The product is not known to contain any ingredients:
-Which meet the PBT or vPvB criteria as laid down in Annex XIII to Regulation (EC) No 1907/2006, or which were included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or which were identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

Other adverse effects: None known

SECTION 13: Disposal considerations

Disposal instructions:

If unused product exists, then no special disposal procedures are necessary. After product has been used to collect liquid materials; dispose in compliance with SDS(s) of the liquid collected. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the SDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

SECTION 14: Transport Information

US Department of Transportation Classification (49CFR)

Not regulated under DOT

IMDG

Not regulated under IMDG

IATA (Country variations may apply)

Not regulated under IATA

Environmental hazards

Marine pollutant: No.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

No further relevant information available.

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.

None.

SECTION 15: Regulatory Information

USA:

United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200. The product is not hazardous under OSHA.

Toxic Substances Control Act (TSCA) – All substances in this product are listed, as required, or are exempt from the TSCA inventory.

SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:

Section 302 – No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

CERCLA Hazardous Substance List, 40 CFR 302.4: This product does not contain chemicals listed on CERCLA.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None

SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None

Section 311/312 (40 CFR 370):

Acute Health Hazard: No

Chronic Health Hazard: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

Section 313 Toxic Release Inventory (40 CFR 372):

None

STATE REGULATIONS:

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986: No components are listed on Prop 65.

Massachusetts Right to Know: Perlite is listed on the Massachusetts Right to Know List.

Minnesota Hazardous Substance List: Perlite is listed on the Minnesota Hazardous Substance List.

New Jersey Right to Know: Perlite is listed on the New Jersey Right to Know list.

Pennsylvania Right to Know: Perlite is listed on the Pennsylvania Right to Know List.

SECTION 16: Other Information

Revision Date: February 25, 2025. Rev. #3

To the best of our knowledge, the information contained herein is accurate. However, Matrix Management, Inc does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.