

SAFETY DATA SHEET

MAGTECH OSB

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

| | |
|--|---|
| 1.1 Trade Name (as labeled): | MAGTECH Fire Retardant OSB Sheating |
| Synonyms: | N/A |
| CAS No: | Mixture |
| 1.2 Product Use: | Internal/external wall cladding & tile underlayment |
| 1.3 Company Name: | Chicago Flameproof and Wood Specialties Corporation |
| Company Address: | 1200 South Lake Street |
| Company Address Cont: | Montgomery, IL 60538 |
| Business Phone: | (866) 884-7591 |
| Website: | https://www.chicagoflameproof.com/ |
| 1.4 Emergency Telephone Number: | (866) 884-7591 |
| Date of Current Revision: | January 17, 2017 |
| Date of Last Revision: | September 4, 2014 |

SECTION 2 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a solid.

Health Hazards: May cause mechanical skin and eye irritation.

Flammability Hazards: This product as sold is a non-flammable solid. Dust concentrations created while altering this product may be combustible.

Reactivity Hazards: None.

Environmental Hazards: The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

US DOT Symbols: Not Regulated

EU and GHS Symbols: None Applicable

Signal Word: Warning

2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29 CFR 1200 (OSHA HCS) AND THE EUROPEAN UNION DIRECTIVES:

This product does meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910. 1200 or the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC, 2015/830/EU and subsequent Directives.

Components Contributing to Classification: Wood / Wood Dust

2.2 Label Elements:

GHS Hazard Classifications: Combustible Dust

Hazard Statements: May form combustible dust concentrations in air (during handling or processing).

Precautionary Statements: P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response Statements: None Applicable

Storage Statements: None Applicable

Disposal Statements: None Applicable

2.3 Health Hazards or Risks From Exposure:**Symptoms of Overexposure by Route of Exposure:**

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation: Dust may cause respiratory system irritation.

Skin Contact: Dust may cause moderate irritation to skin. Repeated exposure may cause skin dryness or cracking.

Eye Contact: Direct contact to the eyes may be irritating.

Ingestion: May cause irritation is swallowed.

Chronic: None known**Target Organs:**

Acute: Eyes, skin

Chronic: None known

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Ingredients: | WT% | CAS No. | EINECS No. | Hazard Classification |
|------------------------|-----|------------|------------|-----------------------|
| Wood | 48% | Not Listed | Not Listed | Combustible Dust |
| Magnesium Oxide | 32% | 1309-48-4 | 215-171-9 | Not Classified |
| Magnesium Chloride | 12% | 7791-18-6 | 616-575-1 | Not Classified |
| Fiberglass non-woven | <5% | 65997-17-3 | 266-046-0 | Not Classified |
| Talc | <3% | 14807-96-6 | 238-877-9 | Not Classified |

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

* Proprietary ingredients are Company Trade Secret - Business Confidential. Chicago Flameproof is withholding the specific chemical identity under provision of the OSHA Hazard Communication Rule Trade Secrets (1910.1200(i)(1)). The specific chemical identity will be made available to health professionals in accordance with 29 CFR 1910.1200 (i)(1) (2) (3) (4)..

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 - FIRST AID MEASURES**4.1 Description of First Aid Measures:****Eye Contact:**

If product enters the eyes, flush with plenty of water or eye wash solution for several minutes. Remove contacts if present and easy to do. Seek medical attention if irritation persists.

Skin Contact:

Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

Inhalation:

If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

Ingestion:

If product is swallowed, call physician or poison center immediately. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

Medical Conditions Generally Aggravated by Exposure:

Pre-existing skin, respiratory system or eye problems may be aggravated by prolonged contact.

4.2 Symptoms and Effects Both Acute and Delayed:

Exposure to skin, eyes, and respiratory system may cause irritation.

4.3 Recommendations to Physicians:

Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE FIGHTING MEASURES**5.1 Fire Extinguishing Materials:**

Use the following fire extinguishing materials:

Water Spray: Yes **Carbon Dioxide:** Yes

Foam: Yes **Dry Chemical:** Yes

Halon: Yes **Other:** Any "C" Class

5.2 Unusual Fire and Explosion Hazards:

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Irritating and toxic fumes may be produced at high temperatures.

Explosive Sensitivity to Mechanical Impact:

No

Explosive Sensitivity to Static Discharge:

No

- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.

5.3 Special Fire-Fighting Procedures:

| NFPA RATING SYSTEM | | HMIS RATING SYSTEM | | | | | | | | | |
|--|-------------|--|------------|-----------------------------|-------------|----------------------------------|----------|---------------------------------|------------|--|------------|
| <p>Flammability</p> <p>Health</p> <p>Reactivity</p> <p>Other</p> | | <p>HAZARDOUS MATERIAL IDENTIFICATION SYSTEM</p> <table border="1"> <tr> <td>HEALTH HAZARD (BLUE)</td> <td>1</td> </tr> <tr> <td>FLAMMABILITY HAZARD (RED)</td> <td>0</td> </tr> <tr> <td>PHYSICAL HAZARD (YELLOW)</td> <td>0</td> </tr> </table> | | HEALTH HAZARD (BLUE) | 1 | FLAMMABILITY HAZARD (RED) | 0 | PHYSICAL HAZARD (YELLOW) | 0 | | |
| HEALTH HAZARD (BLUE) | 1 | | | | | | | | | | |
| FLAMMABILITY HAZARD (RED) | 0 | | | | | | | | | | |
| PHYSICAL HAZARD (YELLOW) | 0 | | | | | | | | | | |
| <p>PROTECTIVE EQUIPMENT</p> <table border="1"> <thead> <tr> <th>EYES</th> <th>RESPIRATORY</th> <th>HANDS</th> <th>BODY</th> </tr> </thead> <tbody> <tr> <td></td> <td>See Sect 8</td> <td></td> <td>See Sect 8</td> </tr> </tbody> </table> <p>For Routine Industrial Use and Handling Applications</p> | | | | EYES | RESPIRATORY | HANDS | BODY | | See Sect 8 | | See Sect 8 |
| EYES | RESPIRATORY | HANDS | BODY | | | | | | | | |
| | See Sect 8 | | See Sect 8 | | | | | | | | |
| <p>Hazard Scale: 0 = Minimum 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic Hazard</p> | | | | | | | | | | | |

SECTION 6 - ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:**

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

6.2 Environmental Precautions:

If a liquid is introduced, construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

6.3 Spill and Leak Response:**Small Spills:**

- Wet debris and collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material. Soak up with absorbent material such as clay, sand or other suitable non-reactive material.
- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

Large Spills:

SECTION 7 – HANDLING AND STORAGE**7.1 Precautions for Safe Handling:**

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Do not handle or store near heat, sparks, or flame.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

See section 1.2

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**8.1 Exposure Parameters:**

| <u>Ingredients</u> | <u>CAS No.</u> | <u>OSHA PEL</u> | <u>NIOSH PEL</u> |
|----------------------|----------------|--|--|
| Wood / Wood Dust | Not Available | 15 mg/m ³ Total Dust 5.0 mg/m ³ Respirable fraction | 15 mg/m ³ Total Dust 5.0 mg/m ³ Respirable fraction |
| Magnesium Oxide | 1309-48-4 | 15 mg/m ³ | 15 mg/m ³ |
| Magnesium Chloride | 7791-18-6 | 15 mg/m ³ | 15 mg/m ³ |
| Fiberglass non-woven | 65997-17-3 | 15 mg/m ³ | 15 mg/m ³ |
| Talc | 14807-96-6 | 15 mg/m ³ | 15 mg/m ³ |

8.2 Exposure Controls:**Ventilation and Engineering Controls:**

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Cutting Outdoors:

1. Position cutting station so that wind will blow dust away from operator or others in the working area.
2. Use the following methods best suited for job site conditions:
 - a. Score and snap using carbide-tipped scoring knife or utility knife or Fiber Cement Shears.
 - b. Dust reducing circular saw equipped with cement-blade and HEPA vacuum extraction.
 - c. Dust reducing circular saw with cement-blade.

Cutting Indoors:

1. Cut only using score and snap method or with Fiber Cement Shears.
2. Position cutting station in a well-ventilated area to allow for dust dissipation.

Sanding, Drilling, Machining:

If sanding, drilling, machining is necessary, you should always wear a NIOSH-approved dust mask or respirator and warn others in the area.

Respiratory Protection:

Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

Safety glasses or goggles are required.

Eye Protection:

If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

Hand Protection:

Chemical resistant gloves are required to prevent skin contact.

If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

Body Protection:

Use body protect appropriate to task being performed.
If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on Basic Physical and Chemical Properties:**

Appearance (Physical State and Color): Solid

Odor: Wood.

Odor Threshold: No data available

pH: No data available.

Melting/Freezing Point: Not applicable

Boiling Point: Not applicable

Flash Point: No data available

Evaporation Rate: No data available

Flammability (Solid; Gas): Not applicable

Upper/Lower Flammability or Explosion Limits: No data available

Vapor Pressure (mm Hg @ 20°C (68° F): No data available

Vapor Density: No data available

Relative Density: No data available

Specific Gravity: Not available

Solubility in Water: non-soluble

Weight per Gallon: No data available

Partition Coefficient (n-octanol/water): No data available

Auto-Ignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

9.2 Other Information:

No data available

SECTION 10 - STABILITY AND REACTIVITY**10.1 Reactivity:**

This product is not reactive.

10.2 Stability:

Stable under conditions of normal storage and use.

10.3 Possibility of Hazardous Reactions:

Not identified.

10.4 Conditions to Avoid:

Dust generation.

10.5 Incompatible Substances:

Hydrochloric acid will dissolve Magnesium Oxide and can generate Magnesium Chloride fumes.

10.6 Hazardous Decomposition Products:

Will not occur if handled and stored properly. In case of a fire, oxides of carbon and silicon, hydrocarbons, fumes or vapors, and smoke may be produced.

SECTION 11 - TOXICOLOGICAL INFORMATION**11.1 Information on Toxicological Effects:****Toxicity Data:**

Wood dust (softwood or hardwood): OSHA hazard rating = 3.3; moderately toxic with probable oral lethal dose to humans being 0.5 – 5 g/kg (about 1 pound for a 150 pound person). Source: OSHA Regulated hazardous Substances, Government Institutes, Inc.

Carcinogenicity

Ingredients within this product are found on one or more of the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are considered to be cancer-causing agents by these agencies.

Wood Dust is listed as a carcinogen by NTP, OSHA, or IARC. IARC – Group 1: Carcinogenic to humans; sufficient evidence of carcinogenicity. This classification is primarily based on studies showing association exposure to wood dust and Adenocarcinoma of the nasal cavities and Paranasal sinuses. IARC did not find sufficient evidence of an association between occupational exposure to wood dust and other cancers.

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|--------------------------------------|---|
| Irritancy: | This product may cause mechanical irritation. |
| Sensitization to the Product: | This product is not expected to cause skin sensitization. |
| Germ Cell Mutagenicity: | This product does not contain ingredients that are suspected to be a germ cell mutagenic. |
| Reproductive Toxicity: | This product does not contain a component expected to be a reproductive toxicant. |

SECTION 12 - ECOLOGICAL INFORMATION

| | |
|---|---|
| 12.1 Toxicity | No specific data available on this product. |
| 12.2 Persistence and Degradability: | No specific data available on this product. |
| 12.3 Bioaccumulative Potential: | No specific data available on this product. |
| 12.4 Mobility in Soil: | No specific data available on this product. |
| 12.5 Results of PBT and vPvB Assessment: | No specific data available on this product. |
| 12.6 Other Adverse Effects: | No data available |
| 12.7 Water Endangerment Class: | At present, there are no ecotoxicological assessments for this product. |

SECTION 13 - DISPOSAL CONSIDERATIONS

| | |
|--------------------------------------|---|
| 13.1 Waste Treatment Methods: | Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member States and Japan. |
| 13.2 EU Waste Code: | Not determined |

SECTION 14 - TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

| | |
|--|---------------|
| UN Identification Number: | Not Regulated |
| Proper Shipping Name: | None |
| Hazard Class Number and Description: | None |
| Packing Group: | None |
| DOT Label(s) Required: | None |
| North American Emergency Response Guidebook Number: | None |

14.2 Environmental Hazards:

| | |
|--------------------------|---|
| Marine Pollutant: | The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B). |
|--------------------------|---|

14.3 Special Precaution for User:

None

14.4 International Air Transport Association Shipping Information (IATA):

This product is not considered as dangerous goods.

14.5 International Maritime Organization Shipping Information (IMO):

This product is not considered as dangerous goods.

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA 311/312:

Acute Health: No; Chronic Health: No; Fire: No; Reactivity: No

U.S. SARA 313: None known

U.S. CERCLA Reportable Quantity:

None known

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):

This product does contain ingredients on the Proposition 65 Lists.

15.2 Canadian Regulations:**Canadian DSL/NDSL Inventory Status:**

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

Classified per WHMIS 2015 Controlled Product Regulations.

15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC, 2015/830/EU and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

SECTION 16 - ADDITIONAL INFORMATION

Prepared By: Chris Eigbrett (MSDS to GHS Compliance)

Date of Printing: January 17, 2017

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. Petroleum Solutions assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Petroleum Solutions assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET