

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the preparation

Product Name: "Class D" Dry Powder Agent
Chemical Name: N/A – This is a mixture/preparation.
CAS No.: N/A – This is a mixture/preparation.
Chemical Formula: N/A – This is a mixture/preparation.
EINECS Number: N/A – This is a mixture/preparation.

1.2. Use of the preparation

The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT.

1.3. Company identification

Manufacturer/Supplier: FLAG FIRE
Address: One Stanton Street, Marinette, WI 54143-2542
Prepared by: Safety and Health Department
Phone: 715-732-3465
Internet/Home Page: <http://www.flagfire.com>
Date of Issue: September, 2009

1.4. Emergency Telephone

CHEMTREC 800-424-9300 or 703-527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1. Ingredient Name: Saran.
Chemical Formula: $-(CH_2CCl_2)_x(CH_2CHCN)_y-$
CAS No.: 9010-76-8.
EINECS Number: (a).
Concentration, Wt %: 5-8 %.
Hazard Identification: See Heading 3.

Ingredient Name: Magnesium Aluminum Silicate (Attapulgite Clay or Fuller's Earth).
Chemical Formula: $Mg_xAl_y(SiO_4)_z$.
CAS No.: 8031-18-3.
EINECS Number: (b).
Concentration, Wt %: 4-7 %.
Hazard Identification: See Heading 3.

Proprietary Mixture of:

Ingredient Name: Sodium Chloride.
Chemical Formula: NaCl.
CAS No.: 7647-14-5.
EINECS Number: 231-598-3.
Concentration, Wt %: 83-88 %.
Hazard Identification: See Heading 3.

Ingredient Name: Magnesium Stearate.
Chemical Formula: $(C_{17}H_{35}CO_2)_2Mg$.
CAS No.: 557-04-0.
EINECS Number: 209-150-3.
Concentration, Wt %: <3 %.
Hazard Identification: See Heading 3.

- 2.2.** (i) There are NO substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC, in concentrations equal to or greater than those laid down in the table set out in Article 3(3) of Directive 1999/45/EC, nor with lower limits given in Annex I to Directive 67/548/EEC or in Annexes II, III or V to Directive 1999/45/EC.
(ii) There are NO substances for which there are Community workplace exposure limits, which are not already included in (i) above.

- (a) EINICS does not include synthetic polymers (These are registered in EINICS under their building blocks, monomers.). See: 67/548/EEC, article 13; 79/831/EC; and 81/437/EC.
- (b) EINICS does not include most naturally occurring raw materials. See: 67/548/EEC, article 13; 79/831/EC; and 81/437/EC.

3. HAZARDS IDENTIFICATION

FOR HUMANS:

This preparation is not classified as dangerous according to Directive 1999/45/EC.

Limit Values for Exposure:

Nuisance dust limit: OSHA TWA: 15 mg/m³.
ACGIH TLV-TWA 10 mg/m³.

Neither this preparation nor the substances contained in it have been listed as carcinogenic by National Toxicology Program, I.A.R.C., or OSHA.

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes, and clothing.

SIGNS AND SYMPTOMS:

Acute Exposure:

Eye Contact: Mildly irritating for short period of time.
Skin Contact: May be mildly irritating.
Inhalation: Not a likely route of entry. May be irritating to mucous membranes.
Ingestion: Ingestion of large amounts can cause irritation of the stomach.

Chronic Overexposure: No data available.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

FOR ENVIRONMENT:

No data available.

4. FIRST AID MEASURES

Eye Contact: Wash with water for a minimum of 15 minutes. If irritation persists seek medical attention.
Skin Contact: Wash affected area with soap and water. If irritation persists seek medical attention.
Inhalation: Remove from exposure. If irritation persists seek medical attention.
Ingestion: Dilute by drinking large quantities of water.

5. FIRE-FIGHTING MEASURES

This preparation is an extinguishing media.
There are NO extinguishing media which must not be used for safety reasons.
NO special protective equipment is needed for fire-fighters. Wear protective equipment appropriate for the fire conditions.

6. ACCIDENTAL RELEASE MEASURES

For personal protection: Prevent skin and eye contact, see Heading 8.
Clean up: Sweep up and reuse or place in a closed container for disposal, see Heading 13.
NO harm to the environment is expected from an accidental release of this preparation.

7. HANDLING AND STORAGE

7.1. Handling

Care should be taken in handling all chemical substances and preparations.
See incompatibility information in Heading 10.

7.2. Storage

No special conditions are needed for safe storage.
See incompatibility information in Heading 10.
Store in original container. Keep tightly closed until used.
There is minimal danger to the environment from a storage release.

7.3. Specific use

The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values

Limit Values for Exposure:

Nuisance dust limit: OSHA TWA: 15 mg/m³.
ACGIH TLV-TWA: 10 mg/m³.

8.2. Exposure controls

8.2.1. Occupational exposure controls

8.2.1.1. Respiratory protection

None expected to be needed. Mechanical ventilation is recommended.

8.2.1.2. Hand protection

None normally needed. Use impervious gloves if irritation occurs.

8.2.1.3. Eye protection

Chemical goggles recommended as mechanical barrier for prolonged exposure.

8.2.1.4. Skin protection

No special equipment is needed.

8.2.2. Environmental exposure controls

No special controls are needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance: White Powder.
Odor: None.

9.2. Important health, safety, and environmental information

pH: Not determined.
Boiling point/boiling range: Not applicable.
Flash point: None to boiling.
Flammability (solid/gas): Not flammable.
Explosive properties: Not explosive.
Oxidizing properties: Not an oxidizer.
Vapor Pressure: Not applicable.
Relative Density: Not applicable.
Solubility:
– Water solubility: Partially soluble.
– Fat solubility: Not soluble.
Partition coefficient, n-octanol/water: Not determined.
Viscosity: Not applicable.
Vapor density (Air = 1): Not applicable.
Evaporation rate: Not applicable.

9.3. Other information

Auto-ignition temperature: Does not ignite.

10. STABILITY AND REACTIVITY

10.1. Conditions to avoid

There are NO known conditions such as temperature, pressure, light, shock, etc., which may cause a dangerous reaction.

10.2. Materials to avoid

BrF₃, Li.

10.3. Hazardous decomposition products

Normally stable.

Hazardous polymerization will not occur.

Combustion or decomposition products include possibly traces of hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

This product has not been tested for toxicological effects. Product is treated as a nuisance dust.

Components:

Sodium chloride

Oral LD ₅₀ (rat)	3,000 mg/kg.	
Skin irritation (rabbit)	500 mg/24 hours	Mild.
Eye irritation (rabbit)	100 mg/24 hours	Moderate.

Magnesium Aluminum Silicate (Attapulgite Clay or Fuller's Earth):

Irritating to eyes, skin, mucous membranes.

Target Organs: Lungs.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Not determined.

12.2. Mobility

Not determined.

12.3. Persistence and degradability

Not determined.

12.4. Bioaccumulative potential

Not determined.

12.5. Other adverse effects

Ozone depletion potential: None.

Photochemical ozone creation potential: None

Global warming potential: None

13. DISPOSAL CONSIDERATIONS

NO harm to the environment is expected from this preparation.

Dispose of in compliance with national, regional, and local provisions that may be in force.

14. TRANSPORT INFORMATION

Hazard Class or Division: NOT a hazardous substance.

For additional transport information, contact FLAG FIRE.

NO harm to the environment is expected from this preparation.

15. REGULATORY INFORMATION

EU Classification: This preparation is not classified as dangerous according to Directive 1999/45/EC.

Nuisance dust limit:	OSHA TWA:	15 mg/m ³
	ACGIH TLV-TWA:	10 mg/m ³ .

EINECS Status: All components are included in EINECS inventories or are exempt from listing.

EPA TSCA Status: All components are included in TSCA inventories or are exempt from listing.

Canadian DSL (Domestic Substances List): All components are included in the DSL or are exempt from listing.

Environmental restrictions: None are known.

Restrictions on Marketing and Use: None are known.

Refer to any other national measures that may be relevant.

16. OTHER INFORMATION

(HMIS) HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:

HEALTH:	<u>1</u>	4. Severe Hazard
FLAMMABILITY:	<u>0</u>	3. Serious Hazard
REACTIVITY:	<u>0</u>	2. Moderate Hazard
		1. Slight Hazard
		0. Minimal Hazard

(WHMIS) CANADIAN WORKPLACE HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:

This product is rated **Not Hazardous**.

Format is from directive 2001/58/EC.

EINECS data is from <http://exb.jrc.it/existing-chemicals/>

The EU Classification has been changed in accordance with Directive 1999/45/EC.

17. DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. FLAG FIRE SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

N/A = Not Applicable

NDA = No Data Available