

I. Identification of the Substance/Preparation and of the Company

Trade Name: FORAY®
 Manufacturer/Supplier: ANSUL INCORPORATED
 Address: One Stanton Street, Marinette, WI 54143-2542
 Prepared by: Safety and Health Department
 Phone: 715-735-7411
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 Internet/Home Page: <http://www.ansul.com>
 Emergency Phone Number: CHEMTREC 800-424-9300 or 703-527-3887
 Date of Issue: February 2002

II. Composition/Information on Ingredients

| Component | Wt. % | CAS No. | EINECS | Class, R, and S Phrases |
|--|-------|------------|-----------|-------------------------|
| Monoammonium Phosphate | 65-82 | 7722-76-1 | 231-764-5 | (See Section XV) |
| Ammonium sulfate | 12-25 | 7783-20-2 | 231-984-1 | (See Section XV) |
| Magnesium Aluminum Silicate (Attapulgate Clay or Fuller's Earth): | 5-7 | 8031-18-3 | Listed | (See Section XV) |
| Calcium Carbonate | <2 | 471-34-1 | 207-439-9 | (See Section XV) |
| Methyl Hydrogen Polysiloxane: | <1 | 63148-57-2 | (a) | (See Section XV) |
| Yellow Pigment: | <0.05 | 5468-75-7 | 226-789-3 | (See Section XV) |

(a) Any "polymerizate, polycondensate, or polyadduct" is exempted by 81/437/EEC.

III. Hazards Identification**For Humans****Threshold Limit Values:**

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

Signs and Symptoms:**Acute Exposure:**

Eye Contact: Mildly irritating for short periods of time.
 Inhalation: Treat as a mineral dust. Irritant to the respiratory tract. Transient cough, shortness of breath.
 Skin Contact: May be mildly irritating.
 Ingestion: Not an expected route of entry.

Chronic Overexposure:

Inhalation: Chronic fibrosis of the lung, pneumoconiosis.

Medical Conditions Generally Aggravated by Exposure: Reactive airway.

Chemical Listed as Carcinogen or Potential Carcinogen:

National Toxicology Program ☒ No I.A.R.C. Monographs ☒ No OSHA ☒ No

For Environment: (See Section XII).

WHMIS Information:  D2B - Product may irritate skin or mucous membrane.

IV. First-Aid Measures

Inhalation: Remove victim to fresh air. Seek medical attention if discomfort continues.
 Eye Contact: Flush with large amounts of water. If irritation persists, seek medical attention.
 Skin Contact: Wash with soap and water. If irritation persists, seek medical attention.
 Ingestion: If patient is conscious, give large amounts of water and induce vomiting. Seek medical help.

V. Fire-Fighting Measures

Extinguishing Media: THIS IS AN EXTINGUISHING AGENT.
 Special Procedures: None.
 Unusual Fire and Explosion Hazards: None.

VI. Accidental Release Measures

Personal Precautions:

Respiratory Protection: (See Section VIII)
Hand Protection: (See Section VIII)
Eye Protection: (See Section VIII)
Skin and Body Protection: (See Section VIII)

Clean up Precautions: Sweep up and put in closed container.

Waste Disposal Methods: (See Section XIII)

VII. Handling and Storage

Handling: Do not mix Fire Protection Agents.

Storage: Store in original container or Ansul fire extinguisher.

VIII. Exposure Controls/Personal Protection

Respiratory: Dust mask where dustiness is prevalent, or TLV is exceeded. Use mechanical filter respirator if exposure is prolonged.

Mechanical ventilation is recommended.

Hand: None normally needed. Use impervious gloves if irritation occurs.

Eye: Chemical goggles recommended as mechanical barrier for prolonged exposure.

Skin and Body: If irritation occurs, use long sleeves.

IX. Physical and Chemical Properties

Appearance: Powder.
Color: Yellow.
Odor: None.
Relative Density (H₂O = 1): Not applicable.
Solubility in Water: Slight.
pH (If in water, % Conc.): Not determined.
Boiling Point: Not applicable.
Vapor Pressure (mm Hg): Not applicable.
Vapor Density (Air =1): Not applicable.
Flash Point: None.
Flammability Limits in Air (% by volume): Nonflammable.
Autoflammability: Nonflammable.
Explosive Properties: Not explosive.
Oxidizing Properties: None.

X. Stability and Reactivity

Stability: Stable ☒ Unstable ☐
Conditions to Avoid: None.
Hazardous Reactions: Will not occur ☒ May occur ☐
Conditions to Avoid: None.
Materials to Avoid: Strong alkalis, magnesium, oxidizers that can release chlorine per NFPA 43A.
Hazardous Decomposition Products: Ammonia and/or phosphorous oxides can be evolved.

XI. Toxicological Information

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

Components:

Monoammonium Phosphate:

Material is irritating.

Harmful if swallowed.

Ammonium sulfate:

Toxicity Data: Oral (rat) LD₅₀ 2840 mg/kg.

Target Organs: Lungs and gastrointestinal.

XII. Ecological Information

| | |
|--|---|
| Mobility: | Not tested. |
| Absorption/Desorption: | Not tested. |
| Degradability: | Not applicable. |
| Biotic and Abiotic Degradation: | Not applicable. |
| Aerobic and Anaerobic Degradation: | Not applicable. |
| Persistence: | Not tested. |
| Accumulation: | Not applicable. |
| Bioaccumulation Potential: | Not applicable. |
| Biomagnification: | Not applicable. |
| Short and Long Term Effects on: | |
| Ecotoxicity | Not tested. |
| Aquatic Organisms: | Not tested. |
| Soil Organisms: | Not tested. |
| Plants and Terrestrial animals: | Not tested. |
| Other Adverse Effects: | Not tested. |
| Ozone Depletion Potential: | Not applicable. |
| Photochemical Ozone Creation Potential: | Not applicable. |
| Global Warming Potential: | From heating or reaction with acids, carbon dioxide can be generated. |
| Effects on Waste Water Treatment Plants: | Not tested. |

XIII. Disposal Considerations

Dispose of in Compliance with local, state, and national regulations.

XIV. Transport Information

Hazard Class or Division: Not a hazardous substance.

For additional transport information, contact Ansul Incorporated.

XV. Regulatory Information

Product:

| | | |
|--------------------|----------|---|
| EU Classification: | Harmful. | |
| R Phrases: | 22 | Harmful if swallowed. |
| | 36/37/38 | Irritating to eyes, respiratory system, and skin. |
| S Phrases: | 26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| | 36 | Wear suitable protective clothing. |

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Ammonium sulfate:

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Limit Values for Exposure:

| | | |
|----------------------|---------------|----------------------|
| 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.**Restrictions on Marketing and Use:** None

Refer to any other national measures that may be relevant.

XVI. Other Information

None known.

XVII. Disclaimer

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