



## Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard ( 29CFR 1910.1200)

**Product name** FORAY® ABC Multi-Purpose Dry Chemical

### 1. Identification

#### 1.1. Product Identifier

**Product name** FORAY® ABC Multi-Purpose Dry Chemical

#### 1.2. Other means of identification

**Product code** 415788

**Synonyms** None

**Chemical Family** No information available

#### 1.3. Recommended use of the chemical and restrictions on use

**Recommended use** Fire extinguishing agent

**Uses advised against** Consumer use

#### 1.4. Details of the Supplier of the Safety Data Sheet

**Company Name** Tyco Fire Protection Products  
One Stanton Street  
Marinette, WI 54143-2542  
Telephone: 715-735-7411

**Contact point** Product Stewardship at 1-715-735-7411

**E-mail address** psra@tycofp.com

#### 1.5. Emergency Telephone Number

**Emergency telephone** CHEMTREC 800-424-9300 or 703-527-3887

### 2. Hazards Identification

#### Classification

##### **OSHA Regulatory Status**

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### 2.2. Label Elements

##### **hazard statements**

Non-hazardous

The product contains no substances which at their given concentration, are considered to be hazardous to health

##### **Precautionary Statements**

###### **Prevention**

None.

#### 2.3. Hazards Not Otherwise Classified (HNOC)

Not Applicable.

#### 2.4. OTHER INFORMATION



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Unknown Acute Toxicity

7.4258% of the mixture consists of ingredient(s) of unknown toxicity

### 3. Composition/information on Ingredients

#### 3.1. Mixture

The following component(s) in this product are considered hazardous under applicable OSHA(USA).

| Chemical name                 | CAS No     | weight-% |
|-------------------------------|------------|----------|
| Ammonium dihydrogen phosphate | 7722-76-1  | 60 - 100 |
| Ammonium sulfate, technical   | 7783-20-2  | 10 - 30  |
| Attapulgate                   | 12174-11-7 | 1 - 5    |

### 4. First aid measures

#### 4.1. Description of first aid measures

|              |                                                                                                                                                    |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention. |
| Skin contact | Wash skin with soap and water. Get medical attention if irritation develops and persists.                                                          |
| Inhalation   | If experiencing respiratory symptoms: Call a POISON CENTER or doctor.                                                                              |
| Ingestion    | If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell.                                                                         |

#### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms None known.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians Treat symptomatically.

### 5. Fire-fighting measures

#### 5.1. Suitable Extinguishing Media

Product is extinguishing agent. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### 5.2. Unsuitable Extinguishing Media

None.

#### 5.3. Specific Hazards Arising from the Chemical

None in particular.

#### 5.4. Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.



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#### **5.5. Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### **6. Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Provide adequate ventilation. Avoid creating dust. Avoid breathing dust/fume/gas/mist/vapors/spray.

**For emergency responders** Use personal protection recommended in Section 8.

#### **6.2. Environmental Precautions**

**Environmental Precautions** See Section 12 for additional Ecological Information.

#### **6.3. Methods and material for containment and cleaning up**

**Methods for Containment** Stop leak if you can do it without risk. If sweeping of a contaminated area is necessary use a dust suppressing agent which does not react with product.

**Methods for Cleaning Up** Clean up material with vacuum equipped with HEPA filter. Use water as dust suppressant if necessary. Following product recovery, flush area with water.

### **7. Handling and Storage**

#### **7.1. Precautions for Safe Handling**

**Advice on safe handling** Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation. Use personal protective equipment as required. Wash thoroughly after handling.

#### **7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Store in a well-ventilated place. Keep cool. Keep container tightly closed. Guard against dust accumulation of material. Use care in handling/storage.

**Incompatible Materials** Strong oxidizing agents. Strong acids. Strong bases.

### **8. Exposure Controls/Personal Protection**

#### **8.1. Control Parameters**

##### **Exposure guidelines**

| Chemical name            | ACGIH TLV                                    | OSHA PEL | NIOSH IDLH |
|--------------------------|----------------------------------------------|----------|------------|
| Attapulgit<br>12174-11-7 | TWA: 1 mg/m <sup>3</sup> respirable fraction | -        | -          |

ACGIH (American Conference of Governmental Industrial Hygienists). OSHA (Occupational Safety and Health Administration of the US Department of Labor). NIOSH IDLH: Immediately Dangerous to Life or Health.

#### **8.2. Appropriate Engineering Controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.



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### **8.3. Individual protection measures, such as personal protective equipment**

|                          |                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------|
| Eye/Face Protection      | Wear safety glasses with side shields (or goggles).                                          |
| Skin and Body Protection | No special precautions are needed in handling this material.                                 |
| Respiratory Protection   | In case of insufficient ventilation, wear suitable respiratory equipment.                    |
| Ventilation              | Use local exhaust or general dilution ventilation to control exposure with applicable limits |

### **8.4. General hygiene considerations**

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

## **9. Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

|                |                   |       |        |
|----------------|-------------------|-------|--------|
| Physical State | powder            | Color | Yellow |
| Odor           | odorless          |       |        |
| odor threshold | No data available |       |        |

| <u>Property</u>               | <u>VALUES</u>     | <u>Remarks • Method</u> |
|-------------------------------|-------------------|-------------------------|
| pH                            | No data available |                         |
| Melting point/freezing point  | No data available |                         |
| Boiling point / boiling range | No data available |                         |
| Flash Point                   | No data available |                         |
| Evaporation Rate              | No data available |                         |
| flammability (solid, gas)     | No data available |                         |
| Flammability limit in air     |                   |                         |
| Upper flammability limit:     | No data available |                         |
| Lower flammability limit:     | No data available |                         |
| Vapor Pressure                | No data available |                         |
| Vapor Density                 | No data available |                         |
| Specific gravity              | No data available |                         |
| Water Solubility              | No data available |                         |
| Solubility in Other Solvents  | No data available |                         |
| Partition coefficient         | No data available |                         |
| Autoignition Temperature      | No data available |                         |
| Decomposition Temperature     | No data available |                         |
| Kinematic viscosity           | No data available |                         |

## **10. Stability and Reactivity**

### **10.1. Chemical Stability**

Stable under recommended storage conditions.

### **10.2. Reactivity**

No data available



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### **10.3. Possibility of hazardous reactions**

Hazardous polymerization does not occur.

**hazardous polymerization** Hazardous polymerization does not occur.

### **10.4. Conditions to Avoid**

None known based on information supplied.

### **10.5. Incompatible Materials**

Strong oxidizing agents. Strong acids. Strong bases.

### **10.6. Hazardous decomposition products**

Carbon oxides. Nitrogen oxides (NOx).

## **11. Toxicological Information**

### **11.1. Information on Likely Routes of Exposure**

#### **Product information**

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| <b>INHALATION</b>   | May cause irritation of respiratory tract.          |
| <b>Eye Contact</b>  | May cause irritation.                               |
| <b>Skin contact</b> | May cause irritation.                               |
| <b>INGESTION</b>    | Ingestion may cause irritation to mucous membranes. |

#### **Acute Toxicity**

| Chemical name                              | Oral LD50            | dermal LD50             | Inhalation LC50 |
|--------------------------------------------|----------------------|-------------------------|-----------------|
| Ammonium dihydrogen phosphate<br>7722-76-1 | = 5750 mg/kg ( Rat ) | > 7940 mg/kg ( Rabbit ) | -               |
| Ammonium sulfate, technical<br>7783-20-2   | = 2000 mg/kg ( Rat ) | -                       | -               |

### **11.2. Information on Toxicological Effects**

**Symptoms** No information available.

### **11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**sensitization** No information available.

**Germ Cell Mutagenicity** No information available

**carcinogenicity** Attapulgit (palygorskite fibers) is a hydrated magnesium aluminum silicate. Long palygorskite (attapulgit) fibers (>5 micrometers) are possibly carcinogenic to humans (Group 2B). Short palygorskite (attapulgit) fibers (<5 micrometers) cannot be classified as to their carcinogenicity to humans (Group 3). The attapulgit present in this product contains fibers 0.5-2.5 um range, so would be considered by IARC as Group 3.

| Chemical name            | ACGIH | IARC    | NTP | OSHA |
|--------------------------|-------|---------|-----|------|
| Attapulgit<br>12174-11-7 | -     | Group 3 | -   | -    |



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IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

**Reproductive Toxicity** No information available.  
**STOT - Single Exposure** No information available.  
**STOT - Repeated Exposure** No information available.  
**Aspiration Hazard** No information available.

**11.4. Numerical Measures of Toxicity - Product information**

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 19026 mg/kg  
**ATEmix (dermal)** 10081 mg/kg

**12. Ecological Information****12.1. ecotoxicity**

Not classified

7.4% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical name                                   | Algae/aquatic plants                                    | Fish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Crustacea                                                                   |
|-------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Ammonium sulfate, technical<br>7783-20-2        | -                                                       | LC50 96 h 460 - 1000 mg/L<br>Leuciscus idus static; LC50 96 h<br>123 - 128 mg/L Poecilia reticulata<br>semi-static; LC50 96 h = 126 mg/L<br>Poecilia reticulata; LC50 96 h > 100<br>mg/L Pimephales promelas; LC50<br>96 h 32.2 - 41.9 mg/L<br>Oncorhynchus mykiss flow-through;<br>LC50 96 h 5.2 - 8.2 mg/L<br>Oncorhynchus mykiss static; LC50<br>96 h = 18 mg/L Cyprinus carpio;<br>LC50 96 h = 480 mg/L Brachydanio<br>rerio flow-through; LC50 96 h = 420<br>mg/L Brachydanio rerio semi-static;<br>LC50 96 h = 250 mg/L Brachydanio<br>rerio | LC50 48 h = 14 mg/L Daphnia<br>magna; EC50 24 h = 423 mg/L<br>Daphnia magna |
| Silicic Acid/silica gel, Amorphous<br>7631-86-9 | EC50 72 h = 440 mg/L<br>Pseudokirchneriella subcapitata | LC50 96 h = 5000 mg/L<br>Brachydanio rerio static                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | EC50 48 h = 7600 mg/L<br>Ceriodaphnia dubia                                 |

**12.2. Persistence and Degradability**

No information available.

**12.3. Bioaccumulation**

No information available.

| Chemical name                            | Partition coefficient |
|------------------------------------------|-----------------------|
| Ammonium sulfate, technical<br>7783-20-2 | -5.1                  |

**12.4. Other Adverse Effects**

No information available

**13. Disposal Considerations**



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### **13.1. Waste Treatment Methods**

#### **Disposal of wastes**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### **Contaminated Packaging**

Do not reuse container.

## **14. Transport Information**

#### **DOT**

NOT REGULATED

#### **TDG**

NOT REGULATED

#### **MEX**

NOT REGULATED

## **15. Regulatory Information**

### **15.1. International Inventories**

|          |                 |
|----------|-----------------|
| TSCA     | Complies        |
| DSL/NDSL | Complies        |
| ENCS     | Does not comply |
| IECSC    | Complies        |
| KECL     | Does not comply |
| PICCS    | Complies        |
| AICS     | Complies        |

#### **Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AICS - Australian Inventory of Chemical Substances

### **15.2. US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name                             | SARA 313 - Threshold Values % |
|-------------------------------------------|-------------------------------|
| Ammonium dihydrogen phosphate - 7722-76-1 | 1.0                           |
| Ammonium sulfate, technical - 7783-20-2   | 1.0                           |

#### **SARA 311/312 Hazard Categories**

|                       |    |
|-----------------------|----|
| Acute Health Hazard   | No |
| Chronic health hazard | No |



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|                                   |    |
|-----------------------------------|----|
| Fire Hazard                       | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard                   | No |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**15.3. US State Regulations****California Proposition 65**

Classification only applies to Attapulgit with fibers >5 um. This product contains Attapulgit with fibers <5 um.

| Chemical name           | California Proposition 65 |
|-------------------------|---------------------------|
| Attapulgit - 12174-11-7 | Carcinogen                |

**U.S. State Right-to-Know Regulations**

| Chemical name                            | New Jersey | Massachusetts | Pennsylvania |
|------------------------------------------|------------|---------------|--------------|
| Ammonium sulfate, technical<br>7783-20-2 | -          | X             | X            |
| Mica<br>12001-26-2                       | X          | X             | X            |

**16. Other information, including date of preparation of the last revision**

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <b>NFPA</b> | Health Hazards 0 | flammability 0 | Instability 0      | Physical and chemical properties - |
| <b>HMIS</b> | Health Hazards 0 | flammability 0 | Physical Hazards 0 | Personal Protection X              |

Revision date 25-May-2015

**Revision note**

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet