Safety Data Sheet

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

Product name PLUS-FIFTY® C Dry Chemical, Cartridge Operated Extinguisher

1. Identification

1.1. Product Identifier

Product name PLUS-FIFTY® C Dry Chemical, Cartridge Operated Extinguisher

1.2. Other means of identification

Product code 006619
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

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

2.2. Label Elements

Hazard Statements

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

Precautionary Statements

2.3. Hazards Not Otherwise Classified (HNOC)

Not Applicable.

2.4. Other Information

May be harmful if swallowed.

Unknown Acute Toxicity 3.6% 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)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attapulgite</td>
<td>12174-11-7</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

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. |

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**

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

6.2. Environmental Precautions

**Environmental Precautions**
Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. 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. Dike far ahead of spill; use dry sand to contain the flow of material. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for Cleaning Up**
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 acids.

8. Exposure Controls/Personal Protection

8.1. Control Parameters

**Exposure guidelines**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
<th>Mexico OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attapulgite</td>
<td>TWA: 1 mg/m³ respirable particulate matter</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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**
Ensure adequate ventilation, especially in confined areas.
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>powder</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
<td>Color</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
<td>Light blue</td>
</tr>
</tbody>
</table>

#### 9.2. Odor

None

#### 9.3. Color

Light blue

#### 9.4. Odor Threshold

No data available

#### 9.5. Physical State

- **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

#### 10.3. Possibility of hazardous reactions

None under normal processing.
Hazardous Polymerization

Hazardous polymerization does not occur.

10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible Materials

Strong acids.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx).

11. Toxicological Information

11.1. Information on Likely Routes of Exposure

Product information

- **Inhalation**: May cause irritation of respiratory tract.
- **Eye Contact**: May cause irritation.
- **Skin contact**: May cause irritation.
- **Ingestion**: Ingestion may cause irritation to mucous membranes.

**Acute Toxicity**

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

- **Skin Corrosion/Irritation**: No information available.
- **Serious eye damage/eye irritation**: No information available.
- **Sensitization**: No information available.
- **Germ Cell Mutagenicity**: No information available.
- **Carcinogenicity**: Attapulgite (palygorskite fibers) is a hydrated magnesium aluminum silicate. Long palygorskite (attapulgite) fibers (>5 micrometers) are possibly carcinogenic to humans (Group 2B). Short palygorskite (attapulgite) fibers (<5 micrometers) cannot be classified as to their carcinogenicity to humans (Group 3). The attapulgite present in this product contains fibers 0.5-2.5 um range, so would be considered by IARC as Group 3.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
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<tbody>
<tr>
<td>Attapulgite 12174-11-7</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

**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 mg/kg

12. Ecological Information

12.1. Ecotoxicity

Not classified.

8.8% of the mixture consists of components(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
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</thead>
<tbody>
<tr>
<td>Pigment Blue</td>
<td>-</td>
<td>LC50 (96h) semi-static &gt; 1000 mg/L</td>
<td>-</td>
</tr>
<tr>
<td>25869-98-1</td>
<td></td>
<td>Leuciscus idus</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and Degradability

No information available.

12.3. Bioaccumulation

No information available.

12.4. Other Adverse Effects

No information available

13. Disposal Considerations

13.1. Waste Treatment Methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

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

Revision date 25-May-2017
Version 29
Product code 006619 / Product name PLUS-FIFTY® C / Dry Chemical, Cartridge Operated Extinguisher

ENCS
IECSC
KECL
PICCS
AICS

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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories
Acute Health Hazard No
Chronic health hazard No
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 Attapulgite with fibers >5 um. This product contains Attapulgite with fibers <5 um.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Proposition 65</th>
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<tbody>
<tr>
<td>Attapulgite - 12174-11-7</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Quartz - 14808-60-7</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
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<tbody>
<tr>
<td>Quartz</td>
<td>X</td>
<td>X</td>
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<tr>
<td>14808-60-7</td>
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Revision date 25-May-2017 Version 29
16. Other information, including date of preparation of the last revision

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and chemical properties</th>
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<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
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<tbody>
<tr>
<td></td>
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<td>0</td>
<td>0</td>
<td>X</td>
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</tbody>
</table>

Revision date 25-May-2017

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