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

Product Identifier

Product Name  ABC SUPER 90 DRY CHEMICAL

Other means of identification

Synonyms  Multi-purpose Dry Chemical

Recommended use of the chemical and restrictions on use

Recommended Use  Fire Suppression
Uses advised against  Not for human or animal drug use

Details of the Supplier of the Safety Data Sheet

Extinguisher Manufacturer  STRIKE FIRST CORPORATION
777 Tapscott Rd. Toronto Ontario
M1X 1A2

Contact Information  Phone: (416) 299-7767
Fax: (416) 299-8039
Email: info@strike-first.com

Chemical Supplier Name  STEEL FIRE EQUIPMENT LTD.

Supplier Address  150 SUPERIOR BLVD. MISSISAUGA ON
L52 2L2 CANADA

Supplier Contact Numbers  Phone: (905) 564-1500
Fax: (905) 564-0008
Email: sales@steelfire.com

Emergency Telephone Number  CHEMTREC 1-800-424-9300 or
(703) 527-3887

2. HAZARDS IDENTIFICATION

This SDS covers the products as sold in pressurized and non-pressurized containers. GHS classifications for both are listed below.

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
GHS Label elements, including precautionary statements

<table>
<thead>
<tr>
<th>Hazard Symbol</th>
<th>Signal Word</th>
<th>Hazard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Hazard Symbol" /></td>
<td>Warning</td>
<td>Contents under pressure, may explode if heated</td>
</tr>
<tr>
<td><img src="image" alt="Hazard Symbol" /></td>
<td>Warning</td>
<td>May cause skin, eye or respiratory irritation</td>
</tr>
</tbody>
</table>

Emergency Overview

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

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical State</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Yellow</td>
<td>Powder(s) Solid</td>
<td>Odorless</td>
</tr>
</tbody>
</table>

Precautionary Statements

- Prevention
  None

- Response
  None

- Storage
  None

- Disposal
  None

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

1.2% of the mixture consists of ingredient(s) of unknown toxicity

Other information

Maybe harmful if swallowed
May cause slight eye irritation

Interactions with Other Chemicals

No information available.
3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms
MULTI-PURPOSE DRY CHEMICAL

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight - %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Sulfate</td>
<td>7783-20-2</td>
<td>1 – 5</td>
<td>*</td>
</tr>
<tr>
<td>Fullers Earth</td>
<td>8031-18-3</td>
<td>1 – 5</td>
<td>*</td>
</tr>
<tr>
<td>Mica</td>
<td>12001-26-2</td>
<td>1 – 5</td>
<td>*</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

Eye contact
Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin contact
Wash with soap and water.

Inhalation
Remove to fresh air. If symptoms persist, call a physician.

Ingestion
Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects
No information available.

Indication of any immediate medical attention and special treatment if needed

Notes to Physician
Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical
No information available.

Uniform Fire Code
COMBUSTIBLE DUST/POWDER

Hazardous Combustion Products
Carbon oxides.

Explosion Data
Sensitivity to Mechanical Impact
No.
Sensitivity to Static Discharge  
No.

**Protective equipment and precautions for firefighters**  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHS/NIOSH (approved p or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions**  
Avoid contact with skin, eyes or clothing.

**Environmental precautions**

**Environmental precautions**  
Refer to protective measures listed in Sections 7 & 8.

### Methods and material for containment and cleaning up

**Methods for containment**  
Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**  
Avoid generation of dust. Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. Pick up and transfer to properly labeled containers. After cleaning flush away traces of water.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling**  
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, or clothing. Wash thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

**Storage**  
Keep container tightly closed. Keep/store only in original container.

**Incompatible Products**  

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

### Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mica 12001-26-2</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 20mppcf (&lt;1% crystalline silica) 3 mg/m³ (vacated)</td>
<td>IDLH: 1500mg/m³ containing &lt;1% quartz. TWA: 3 mg/m³ respirable dust</td>
</tr>
</tbody>
</table>

ACGIH TLV: American Conference of Government Industrial Hygienist – Threshold Limit Value  
OSHA PEL: Occupational Safety and Health Administration – Permissible Exposure Limits  
NIOSH IDLH: Immediately Dangerous to Life or Health
Appropriate engineering controls

Engineering measures
- Showers
- Eyewash stations
- Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear safety glasses with side shield (or goggles).

Skin and body protection
Wear protective gloves and protective clothing.

Respiratory protection
No protective equipment is needed under normal conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Effective dust mask.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Powder (s)</td>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Appearance</td>
<td>Light Yellow</td>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>Color</td>
<td>Light Yellow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Property Values</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ph</td>
<td>4 – 5</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Melting / Freezing point</td>
<td>190 C</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Boiling point /boiling range</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Flammability limit in air</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>Not flammable</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>Not Flammable</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Specific gravity</td>
<td>0.85</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>&gt;33g/100ml</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>0</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>100 – 120 C</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>0</td>
<td>None known</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Other information

Softening point  No data available
VOC content (%)  No data available
Particle size  No data available
Particle size distribution

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
None under normal processing.
Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to avoid
Incompatible materials.

Incompatible materials

Hazardous Decomposition Products

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation  May cause irritation of respiratory tract.
Eye contact  Contact with eyes may cause irritation.
Skin contact  May cause irritation.
Ingestion  Specific test data for the substance or mixture is not available

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Sulfate</td>
<td>7783-20-2</td>
<td>= 2840mg/kg (Rat)</td>
<td>-</td>
</tr>
</tbody>
</table>

Information on toxicological effects

Symptoms  No information available

Delayed and immediate effects as well as chronic effects from short and long term exposure

Sensitization  No information available.
**Mutagenic Effects**  
No information available.

**Carcinogenicity**  
Contains no ingredient listed as carcinogen.

**Reproductive toxicity**  
No information available.

**STOT – single exposure**  
No information available.

**STOT – repeated exposure**  
No information available.

**Chronic Toxicity**  
No known effect based on information supplied. Carcinogenic potential is unknown.

**Target Organ Effects**  
None known.

**Aspiration Hazard**  
No information available.

**Numerical measures of toxicity**  

**Product Information**

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

**ATEmix (oral)**

4,350.00 mg/kg

---

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**
Harmful to aquatic life with long lasting effect

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Sulfate</td>
<td></td>
<td>96h LC50: = 250mg/l (Brachydanio rerio) 96h LC50: = 480mg/L (Brachydanio rerio) 96h LC50: = 32.2 – 41.2 mg/L (Oncorhynchus mykiss) 96h LC50: = 18mg/L (Cyprinun carpio) 96h LC50: = 420mg/L (Brachydanio rerio) 96h LC50: = &gt;100mg/L (Phimephales promelas) 96h LC50: = 122 – 128mg/L (Poecilia reticulate) 96h LC50: = 460 – 1000mg/L (Leiciscus idus)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Persistence Degradability**
Degrades rapidly in humid/wet environment.

**Bioaccumulation**
### 13. DISPOSAL INFORMATION

**Waste treatment methods**

**Disposal methods**

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**

Dispose of contents/containers in accordance with local regulations.

### 14. TRANSPORTATION INFORMATION

**DOT**

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>NOT REGULATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**TDG**

Not Regulated

**MEX**

Not Regulated

**ICAO**

Not Regulated

**IATA**

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>NON REGULATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**IMDG/IMO**

Not Regulated

**IRD**

Not Regulated

**ADR**

Not Regulated

**ADN**

Not Regulated

**NOTES:**

This product is not defined as a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, or by Transport Canada “Transportation of Dangerous Goods” regulations.

**Special Precautions for Shipping:**

If shipped in a stored pressure-type fire extinguisher, and pressurized with a non-flammable, nontoxic...
inert expellant gas, the fire extinguisher is considered a hazardous material by the US Department of Transportation and Transport Canada. The proper shipping name shall be FIRE EXTINGUISHER and the UN designation is UN 1044. The DOT hazard class is Limited Quantity when shipped via highway or rail. Use a Non-Flammable Gas label (class 2.2) when shipping via air.

## 15. REGULATORY INFORMATION

### International Inventories

<table>
<thead>
<tr>
<th>TSCA</th>
<th>Complies</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSL</td>
<td>All components are listed either on the DSL or NDSL.</td>
</tr>
</tbody>
</table>

**TSCA** – United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** – Canadian Domestic Substances List/Non-Domestic Substances List

### 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 Federal Regulations, Part 372.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight - %</th>
<th>SARA 313 – Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Sulfate</td>
<td>7783-20-2</td>
<td>1 - 5</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**SARA 313/312 Hazard Categories**
- Acute Hazard: No
- Chronic Health Hazard: No
- Fire Hazard: No

**Sudden Release Hazard** - Yes

**Reactive Hazard**: No

* Only applicable if material is in a pressurized extinguisher.

**CWA (Clean Water Act)**
This product does not contain any substances regulated as pollutants pursuant to 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 substance under the Comprehensive Environmental Response 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 release of this material.

### US State Regulations

**California Proposition 65**
This product contains the following Proposition 65 chemicals.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butanamide, 2,2’-[3,3’-dichloro[1,1’-biphenyl]-4,4’-diyl</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

Page 9 of 10
**U.S. State Right-to-Know Regulations**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Rhode Island</th>
<th>Illinois</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mono Ammonium Phosphate 7722-76-1</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Ammonium Sulfate 7783-20-2</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mica 12001-26-2</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silica, amorphous, precipitated and gel 112926-00-8</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**International Regulations**

**Mexico**

**National occupational exposure limits**

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mica 12001-26-2 (1 – 5)</td>
<td></td>
<td>Mexico: TWA=3 mg/m³</td>
</tr>
</tbody>
</table>

Mexico – Occupational Exposure Limits - Carcinogens

**Canada**

**WHMIS Hazard Class**

Not Determined

16. OTHER INFOMRATION

<table>
<thead>
<tr>
<th>NFPA Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards – Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards – Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

Prepared By  
Strike First Corporation  
777 Tapscott Road  
Scarborough ON  
M1X 1A2 Canada

Revision Date  
April 10, 2018

Revision Note  
Remove harmful to aquatic life symbol

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of this publication. This 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 test.

END OF SAFETY DATA SHEET