



SAFETY DATA SHEET

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. MISSISSAUGA 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

<u>Hazard Symbol</u>	<u>Signal Word</u>	<u>Hazard Statement</u>
	<u>Warning</u>	<u>Contents under pressure, may explode if heated</u>
	<u>Warning</u>	<u>May cause skin, eye or respiratory irritation</u>

Emergency Overview

The product contains no substances which at their concentration, are considered to be hazardous to health.		
Appearance	Light Yellow	Physical State
		Powder(s) Solid
		Odor
		Odorless

Precautionary Statements

None

- Prevention**Precautionary Statements**

None

- Response**Precautionary Statements**

None

- Storage**Precautionary Statements**

None

- Disposal**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

Chemical Name	CAS No	Weight - %	Trade Secret
Ammonium Sulfate	7783-20-2	1 – 5	*
Fullers Earth	8031-18-3	1 – 5	*
Mica	12001-26-2	1 – 5	*

*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 Strong oxidizing agents. Strong acids. Chlorinated compounds. Sodium hypochlorite.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mica 12001-26-2	TWA: 3 mg/m ³	TWA: 20mppcf (<1% crystalline silica) 3 mg/m ³ (vacated)	IDLH: 1500mg/m ³ containing <1% quartz TWA: 3 mg/m ³ respirable dust

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

Physical state	Powder (s)		
Appearance	Light Yellow	Odor	Odorless
Color	Light Yellow	Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
Ph	4 – 5	None known	
Melting / Freezing point	190 C	None known	
Boiling point /boiling range	No data available	None known	
Flash point	No data available	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability limit in air			
Upper flammability limit	Not flammable		
Lower flammability limit	Not Flammable		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific gravity	0.85	None known	
Water solubility	>33g/100ml	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	0	None known	
Decomposition temperature	100 – 120 C	None known	

Kinematic viscosity	No data available	None known
Dynamic viscosity	0	
Explosive properties	No data available	
Oxidizing properties	No data available	

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

Strong oxidizing agents. Strong acids. Chlorinated compounds. Sodium hypochlorite.

Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx). Potassium oxides.

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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium Sulfate 7783-20-2	= 2840mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms	No information available
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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

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to microorganisms	Daphnia Magna (Water Flea)
Ammonium Sulfate		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 (Cyprinus carpio) 96h LC50: = 420mg/L (Brachydanio rerio) 96h LC50: 5.2 – 8.2mg/L (Oncorhynchus mykiss) 96h LC50: = >100mg/L (Phimephales promelas) 96h LC50: 122 – 128mg/L (Poecilia reticulata) 96h LC50: 460 – 1000mg/L (Leiciscus idus)		

Persistence Degradability

Degrades rapidly in humid/wet environment.

Bioaccumulation

Chemical Name	Log Pow
Ammonium Sulfate 7783-20-2	-5.1

Other adverse effects

No information available

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

<u>DOT</u>	NOT REGULATED
Proper Shipping Name	NON REGULATED
Hazard Class	N/A

<u>TDG</u>	Not Regulated
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<u>MEX</u>	Not Regulated
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<u>ICAO</u>	Not Regulated
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<u>IATA</u>	Not Regulated
Proper Shipping Name	NON REGULATED
Hazard Class	N/A

<u>IMDG/IMO</u>	Not Regulated
Hazard Class	N/A

<u>IRD</u>	Not Regulated
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<u>ADR</u>	Not Regulated
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<u>ADN</u>	Not Regulated
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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

TSCA

Complies

DSL

All components are listed either on the DSL or NDSL.

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.

Chemical Name	CAS No	Weight - %	SARA 313 – Threshold Values %
Ammonium Sulfate	7783-20-2	1 - 5	1.0

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.

Chemical Name	California Proposition 65
Butanamide, 2,2' -[3,3' -dichloro[1,1' -biphenyl]-4,4' -diyl - 5468-75-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Mono Ammonium Phosphate 7722-76-1				X	
Ammonium Sulfate 7783-20-2		X	X	X	
Mica 12001-26-2	X	X	X		
Silica, amorphous, precipitated and gel 112926-00-8	X	X	X		

International Regulations

Mexico

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Mica 12001-26-2 (1 – 5)		Mexico: TWA=3 mg/m ³

Mexico – Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class

Not Determined

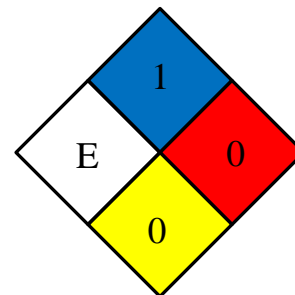
16. OTHER INFORMATION

NFPA	Health Hazards	1	Flammability	0	Instability	0	Physical and Chemical Hazards – Personal Protection
HMIS	Health Hazards	1	Flammability	0	Instability	0	X

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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