



**STRIKE FIRST**  
CORPORATION

# SAFETY DATA SHEET

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

### Product Identifier

**Product Name** STEEL FIRE ® SODIUM BICARBONATE BASE (BC) DRY CHEMICAL MODEL 754 (Part No. SF-SB)

### Other means of identification

**Synonyms** Sodium Bicarbonate, SDC

### 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](mailto: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](mailto: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**

<b><u>Hazard Symbol</u></b>	<b><u>Signal Word</u></b>	<b><u>Hazard Statement</u></b>
	<b><u>Warning</u></b>	<u>Contents under pressure. may explode if heated</u>
	<b><u>Warning</u></b>	<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.		
<b><u>Appearance</u></b>	White	<b><u>Physical State</u></b>
		Powder(s) Solid
		<b><u>Odor</u></b>
		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**

2.08% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

Maybe harmful if swallowed

Harmful to aquatic life with long lasting effects

May cause slight eye irritation

**Interactions with Other Chemicals**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms** SODIUM BICARBONATE, SDC

Chemical Name	CAS No	Weight - %	Trade Secret
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** Possibly a mild irritant to the respiratory system and eyes; mild irritant to the skin. Symptoms may include coughing, shortness of breath, and irritation of the lungs, eyes, and skin. Ingestion may cause gastrointestinal irritation and edema.

**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.

## 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 <sup>3</sup>	TWA: 20mppcf (<1% crystalline silica) 3 mg/m <sup>3</sup> (vacated)	IDLH: 1500mg/m <sup>3</sup> containing <1% quartz TWA: 3 mg/m <sup>3</sup> 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**

<b>Engineering measures</b>	Showers Eyewash stations Ventilation systems
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**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Wear safety glasses with side shield (or goggles).
<b>Skin and body protection</b>	Wear protective gloves and protective clothing.
<b>Respiratory protection</b>	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.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Physical and Chemical Properties**

<b>Physical state</b>	Powder (s)	<b>Odor</b>	Odorless
<b>Appearance</b>	White	<b>Odor Threshold</b>	No information available
<b>Color</b>	White		

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks</u></b>	<b><u>Method</u></b>
<b>Ph</b>	Approx. 8.3	None known	
<b>Melting / Freezing point</b>	Approx. 50 °C	None known	
<b>Boiling point /boiling range</b>	No data available	None known	
<b>Flash point</b>	No data available	None known	
<b>Evaporation rate</b>	No data available	None known	
<b>Flammability (solid, gas)</b>	No data available	None known	
<b>Flammability limit in air</b>			
<b>Upper flammability limit</b>	Not flammable		
<b>Lower flammability limit</b>	Not Flammable		
<b>Vapor pressure</b>	Low Est 3.73e-09mmHg	None known	
<b>Vapor density</b>	No data available	None known	
<b>Specific gravity</b>	Approx. 2.2	None known	
<b>Water solubility</b>	Not immediately soluble in water	None known	
<b>Solubility in other solvents</b>	No data available	None known	
<b>Partition coefficient: n-octanol/water</b>	0	None known	
<b>Decomposition temperature</b>	No data available	None known	
<b>Kinematic viscosity</b>	No data available	None known	
<b>Dynamic viscosity</b>	0		
<b>Explosive properties</b>	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**

Reacts exothermically with acids to generate non-toxic carbon dioxide gas.  
Dangerous reaction with mono-ammonium phosphate  
and sodium potassium alloys

**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.

**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**

**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.

<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Contains no ingredient listed as carcinogen.
<b>Reproductive toxicity</b>	No information available.
<b>STOT – single exposure</b>	No information available.
<b>STOT – repeated exposure</b>	No information available.
<b>Chronic Toxicity</b>	No known effect based on information supplied.
<b>Target Organ Effects</b>	None known.
<b>Aspiration Hazard</b>	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)**

3,282.00 mg/kg

## **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Harmful to aquatic life with long lasting effect

#### **Persistence Degradability**

Soluble in water, NaHCO<sub>3</sub>: 96g/l @20 °C.

#### **Bioaccumulation**

No information available

#### **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**

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

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

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

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

**SARA 313/312 Hazard Categories**

<b>Acute Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release Hazard-*</b>	Yes
<b>Reactive Hazard</b>	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 does not contain any Proposition 65 chemicals.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Mica 12001-26-2	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 <sup>3</sup>

Mexico – Occupational Exposure Limits - Carcinogens

**Canada**

**WHMIS Hazard Class**

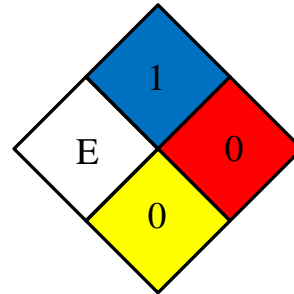
Not Determined

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b>	<b>1</b>	<b>Flammability</b>	<b>0</b>	<b>Instability</b>	<b>0</b>	<b>Physical and Chemical Hazards – Personal Protection</b>
<b>HMIS</b>	<b>Health Hazards</b>	<b>1</b>	<b>Flammability</b>	<b>0</b>	<b>Instability</b>	<b>0</b>	<b>X</b>

**Prepared By**                      **Strike First Corporation**  
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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**