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**
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

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

Emergency Overview

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

Appearance White **Physical State** Powder(s) Solid **Odor** Odorless

Precautionary Statements - Prevention
None

Precautionary Statements - Response
None

Precautionary Statements - Storage
None

Precautionary Statements - Disposal
None

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^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	White	**Odor**	Odorless
Color	White	**Odor Threshold**	No information available

Property	**Values**	**Remarks Method**
Ph	Approx. 8.3	None known
Melting / Freezing point	Approx. 50 °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	Low Est 3.73e-09mmHg	None known
Vapor density	No data available	None known
Specific gravity	Approx. 2.2	None known
Water solubility	Not immediately soluble in water	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	0	None known
Decomposition temperature	No data available	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

Reacts exotermically 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.

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.

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)

3,282.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life with long lasting effect

Persistence Degradability
Soluble in water, NaHCO3: 96g/l @20 ^{O}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

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

TDG Not Regulated

MEX Not Regulated

ICAO Not Regulated

IATA Not Regulated
Proper Shipping Name NON REGULATED
Hazard Class N/A

IMDG/IMO Not Regulated
Hazard Class N/A

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

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

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 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^3

Mexico – Occupational Exposure Limits - Carcinogens

Canada
WHMIS Hazard Class
Not Determined

16. OTHER INFOMRATION

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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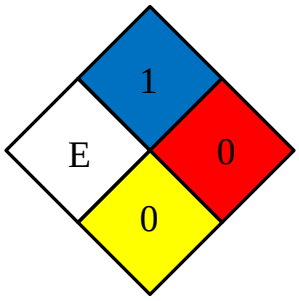

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information , and belief at the date of this publication. This information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and 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