1. IDENTIFICATION

Product Name: Regular Dry Chemical (Fire Extinguishing Agent – Pressurized and Non-pressurized)
Other Names: BC, SDC, Sodium Bicarbonate

Recommend use of the chemical and restrictions on use

Identified uses: Fire Extinguishing Agent
Restrictions on use: Consult applicable fire protection codes

Company Identification
Kidde Residential & Commercial
1016 Corporate Park Drive
Mebane, NC  27302
USA

Customer Information Number
(919) 563-5911
(919) 304-8200

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

Issue Date: February 10, 2017
Supersedes Date: October 1, 2015

2. HAZARD IDENTIFICATION

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

GHS Classification – Pressurized

Hazard Classification
Gas under pressure – Compressed gas

Label Elements
Hazard Symbols

Signal Word: Warning

Hazard Statements
Contents under pressure; may explode if heated.

Precautionary Statements
Prevention
None
Response
None
2. HAZARD IDENTIFICATION

Storage
Protect from sunlight.
Store in well-ventilated place.

Disposal
None

GHS Classification: Non - pressurized

Hazard Classification
This product is classified as not hazardous in accordance with the Globally Harmonized System of Classification and Labelling (GHS).

Label Elements
Hazard Symbols
None

Signal Word: None

Hazard Statements
None

Precautionary Statements
Prevention
None
Response
None
Storage
None
Disposal
None

Other Hazards
Calcium carbonate and mica may contain small quantities of quartz (crystalline silica) as an impurity. Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling lung disease known as silicosis. IARC found limited evidence for pulmonary carcinogenicity of crystalline silica in humans.

Specific Concentration Limits
The values listed below represent the percentages of ingredients of unknown toxicity.
Acute oral toxicity < 10%
Acute dermal toxicity < 10%
Acute inhalation toxicity < 10%
Acute aquatic toxicity < 10%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: BC, SDC, Sodium Bicarbonate
This product is a mixture.
SAFETY DATA SHEET
Regular Dry Chemical
(Fire Extinguishing Agent - Pressurized and Non-pressurized)

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Bicarbonate</td>
<td>144-55-8</td>
<td>88 - 92%</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>471-34-1</td>
<td>4 - 8%</td>
</tr>
<tr>
<td>Mica</td>
<td>12001-26-2</td>
<td>1 - 5%</td>
</tr>
<tr>
<td>Clay</td>
<td>1332-58-7</td>
<td>&lt; 2%</td>
</tr>
<tr>
<td>Amorphous Silica</td>
<td>7631-86-9</td>
<td>&lt; 2%</td>
</tr>
</tbody>
</table>

Note: Pressurized product uses nitrogen, carbon dioxide or compressed air as the expellant.

4. FIRST-AID MEASURES

Description of necessary first-aid measures

Eyes
Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin
Wash skin thoroughly with soap and water. Obtain medical attention if irritation persists.

Ingestion
Dilute by drinking large quantities of water and obtain medical attention.

Inhalation
Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty.

Most important symptoms/effects, acute and delayed
Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed

Notes to Physicians
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a blaze. Use extinguishing agent appropriate to other materials involved. Keep pressurized extinguishers and surroundings cool with water spray as they may rupture or burst in the heat of a fire.

Specific hazards arising from the chemical
Pressurized containers may explode in heat of fire.

Special Protective Actions for Fire-Fighters
Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Wear appropriate protective clothing. Prevent skin and eye contact. Remove leaking cylinder to a safe place. Ventilate the area.
6. ACCIDENTAL RELEASE MEASURES

Environmental Precautions
Prevent large quantities of the material from entering drains or watercourses.

Methods and materials for containment and cleaning up
Sweep up or vacuum and transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Wear appropriate protective clothing. Prevent skin and eye contact.

Conditions for safe storage
Pressurized extinguishers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or roll extinguishers. Do not drop extinguishers or permit them to strike against each other. Never apply flame or localized heat directly to any part of the extinguisher or plastic container. Store pressurized extinguishers and plastic containers away from high heat sources. Storage area should be: - cool - dry - well ventilated - under cover - out of direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure limits are listed below, if they exist.

Mica
ACGIH TLV: 3 mg/m³ TWA, measured as respirable fraction of the aerosol.
OSHA PEL: 20 mppcf, <1% crystalline silica

Calcium Carbonate
OSHA PEL: 15 mg/m³ TWA, total dust
5 mg/m³ TWA, respirable fraction

Clay as Kaolin, Respirable Fraction
ACGIH TLV: 2 mg/m³ TWA
OSHA PEL: 15 mg/m³ TWA, total dust
5 mg/m³ TWA, respirable fraction

Nuisance Dust Limit
OSHA PEL: 50 mppcf or 15 mg/m³ TWA, total dust
15 mppcf or 5 mg/m³ TWA, respirable fraction

Appropriate engineering controls
Use with adequate ventilation. If this product is used in a pressurized system, there should be local procedures for the selection, training, inspection and maintenance of this equipment. When used in large volumes, use local exhaust ventilation.

Individual protection measures
Respiratory Protection
Not normally required. Use dust mask where dustiness is prevalent, or TLV is exceeded. In oxygen deficient atmospheres, use a self-contained breathing apparatus, as an air purifying respirator will not provide protection.
Skin Protection
Not normally needed when used as a portable fire extinguisher. Use gloves if irritation occurs.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

   Eye/Face Protection
   Chemical goggles or safety glasses with side shields.
   Body Protection
   Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

   Non-Pressurized
   Appearance
   Physical State: Solid (powder)
   Color: White
   Odor: Odorless
   Odor Threshold: No data available
   pH: Not applicable
   Specific Gravity: Ca. 2.2
   Boiling Range/Point (°C/F): Not applicable
   Melting Point (°C/F): No data available
   Flash Point (PMCC) (°C/F): Not flammable
   Vapor Pressure: No data available
   Evaporation Rate (BuAc=1): No data available
   Solubility in Water: 16.4g/100g
   Vapor Density (Air = 1): Not applicable
   VOC (g/l): None
   VOC (%): None
   Partition coefficient (n-octanol/water): No data available
   Viscosity: No data available
   Auto-Ignition Temperature: No data available
   Decomposition Temperature: No data available
   Upper explosive limit: No data available
   Lower explosive limit: No data available
   Flammability (solid, gas): No data available

   Expellant
   Appearance
   Physical State: Compressed gas
   Color: Colorless
   Odor: None
   Odor Threshold: No data available
   pH: Not applicable
   Specific Gravity: 0.075 lb/ft³ @70°F as vapor (Nitrogen)
   -0.1144 lb/ft³ (Carbon dioxide gas density)
   Boiling Range/Point (°C/F): -196°C/-321 °F (Nitrogen)
   -78.5 °C /-109.3°F (Carbon Dioxide)
   Melting Point (°C/F): No data available
   Flash Point (PMCC) (°C/F): Not flammable
   Vapor Pressure: 838 psig @70°F and 1 atmosphere (Carbon Dioxide)
   Evaporation Rate (BuAc=1): No data available
   Solubility in Water: No data available
   Vapor Density (Air = 1): Not applicable
   VOC (g/l): None
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC (%)</td>
<td>None</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosive limit</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Lower explosive limit</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not flammable</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Pressurized containers may rupture or explode if exposed to heat.

Chemical Stability
Stable under normal conditions.

Possibility of hazardous reactions
Hazardous polymerization will not occur.

Conditions to Avoid
Exposure to direct sunlight - contact with incompatible materials

Incompatible Materials
Strong oxidizing agents - strong acids

Hazardous Decomposition Products
Oxides of carbon

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

**Sodium Bicarbonate:**
- Oral LD50 (Rat) >4000 mg/kg
- Inhalation LC50(rat) >4.74 mg/l

**Calcium Carbonate:**
- Oral LD50 (Rat) >2000 mg/kg
- Dermal LD50 (Rabbit) >2000mg/kg
- Inhalation LC50(rat) >3.0mg/l

**Mica:**
- Oral LD50 (Rat) >2000 mg/kg

**Amorphous Silica:**
- Oral LD50 (Rat) >5000 mg/kg
- Dermal LD50 (Rabbit) >2000mg/kg

**Clay:**
- Oral LD50 (Rat) >5000 mg/kg
- Dermal LD50 (Rabbit) >5000mg/kg
11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Nitrogen
Simple asphyxiant
Carbon Dioxide
Simple asphyxiant
LCLo (inhalation in humans): 90,000ppm/ 5 minutes.

Specific Target Organ Toxicity (STOT) – single exposure
Sodium Bicarbonate: Available data indicates this component is not expected to cause target organ effects after a single exposure.
Calcium Carbonate: Available data indicates this component is not expected to cause target organ effects after a single exposure.
Nitrogen: Exposure to nitrogen gas at high concentrations can cause suffocation by reducing oxygen available for breathing. Breathing very high concentrations can cause dizziness, shortness of breath, unconsciousness or asphyxiation.

Specific Target Organ Toxicity (STOT) – repeat exposure
Sodium Bicarbonate: Available data indicates this component is not expected to cause target organ effects after repeat exposure.
Calcium Carbonate: Available data indicates this component is not expected to cause target organ effects after repeat exposure.

Serious Eye damage/Irritation
Sodium Bicarbonate: Slightly irritating (rabbit)
Calcium Carbonate: Not irritating (rabbit)
Mica: Not irritating (rabbit)

Skin Corrosion/Irritation
Sodium Bicarbonate: Slightly irritating (rabbit)
Calcium Carbonate: Not irritating (rabbit)
Mica: Not irritating (rabbit)

Respiratory or Skin Sensitization
Calcium Carbonate: Non-sensitizing to skin in Mouse local lymph node assay.

Carcinogenicity
Calcium carbonate and mica may contain small quantities of quartz (crystalline silica) as an impurity. Prolonged exposure to respirable crystallline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling lung disease known as silicosis. IARC has classified Silica Dust, Crystalline, in the form of quartz or cristobalite as 1 (carcinogenic to humans).

Germ Cell Mutagenicity
Sodium Bicarbonate: Negative test results in animal studies.
Calcium Carbonate: Negative results in the Mammalian Cell Gene Mutation Assay with and without metabolic activation, Ames test, and In vitro Mammalian Chromosome Aberration Test.

Reproductive Toxicity
Sodium Bicarbonate: Available data indicates this component is not expected to cause reproductive toxicity or birth defects.
Calcium Carbonate: Available data indicates this component is not expected to cause reproductive toxicity or birth defects.
11. TOXICOLOGICAL INFORMATION

Aspiration Hazard
Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Sodium Bicarbonate:
LC50 Lepomis macrochirus 7100 mg/l 96h
EC50 Daphnia magna 4100 mg/l 48h

Mobility in soil
Nitrogen occurs naturally in the atmosphere

Persistence/Degradability
Nitrogen occurs naturally in the atmosphere.

Bioaccumulative Potential
Nitrogen occurs naturally in the atmosphere.

Other adverse effects
No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose of container in accordance with all applicable local and national regulations. Do not cut, puncture or weld on or near to the container. If spilled, nitrogen will vaporize to the atmosphere.

14. TRANSPORT INFORMATION

Safety Data Sheet information is intended to address a specific material and not various forms or states of containment.

Special Precautions for Shipping:
Individuals must be certified as Hazardous Material Shipper for all transportation modes. Pressurized Fire Extinguishers are considered a hazardous material by the US Department of Transportation and Transport Canada.

DOT CFR 172.101 Data
UN Proper Shipping Name
UN Class (2.2)
UN Number UN1044
UN Packaging Group Not applicable
Classification for AIR Consult current IATA Regulations prior to shipping by air.
Classification for Water Consult current IMDG Regulations prior to shipping by water.
Transport IMDG

Fire extinguishers, 2.2, UN1044
Fire extinguishers

14. TRANSPORT INFORMATION

When shipping via ground, portable fire extinguishers pressurized to less than 241 psi and of less than 1100 cubic inches in size meet the requirements of “Limited Quantity” as referenced in 49 CFR 173.309 (2010). There is no limited quantity designation for fire extinguishers when shipped by air or water.

This section is believed to be accurate at the time of preparation. It is not intended to be a complete statement or summary of the applicable laws, rules, or hazardous material regulations, and is subject to change. Users have the responsibility to confirm compliance with all laws, rules, and hazardous material regulations in effect at the time of shipping.

15. REGULATORY INFORMATION

United States TSCA Inventory
This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance Inventory.

Canada DSL Inventory
All ingredients in this product are listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt from listing.

SARA Title III Sect. 311/312 Categorization: Pressurized w/ Nitrogen
Gas under pressure
SARA Title III Sect. 311/312 Categorization: Non-pressurized
None

SARA Title III Sect. 313
This product does not contain any chemicals that are listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

NFPA Ratings
NFPA Code for Health - 1
NFPA Code for Flammability - 0
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards - None

HMIS Ratings
HMIS Code for Health - 1
HMIS Code for Flammability - 0
HMIS Code for Physical Hazard - 0
HMIS Code for Personal Protection - See Section 8
*Chronic
16. OTHER INFORMATION

Legend
ACGIH: American Conference of Governmental Industrial Hygienists
CAS#: Chemical Abstracts Service Number
EC50: Effect Concentration 50%
IARC: International Agency for Research on Cancer
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
N/A: Denotes no applicable information found or available
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

Revision Date: February 10, 2017
Replaces: October 1, 2015
Changes made: Update to Section 3 and 15.

Information Source and References
This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

Prepared By: EnviroNet LLC.

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