



**SAFETY DATA SHEET**  
**Regular Dry Chemical**  
**(Fire Extinguishing Agent - Pressurized**  
**and Non-pressurized)**

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**1. IDENTIFICATION**

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<b>Product Name</b>	Regular Dry Chemical (Fire Extinguishing Agent – Pressurized and Non-pressurized)
<b>Other Names</b>	BC, SDC, Sodium Bicarbonate
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Identified uses</b>	Fire Extinguishing Agent
<b>Restrictions on use</b>	Consult applicable fire protection codes
<b>Company Identification</b>	Kidde Residential & Commercial 1016 Corporate Park Drive Mebane, NC 27302 USA
<b>Customer Information Number</b>	(919) 563-5911 (919) 304-8200
<b>Emergency Telephone Number</b>	
<b>CHEMTREC Number</b>	(800) 424-9300 (703) 527-3887 (International)
<b>Issue Date</b>	February 10, 2017
<b>Supersedes Date</b>	October 1, 2015

*Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)*

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**2. HAZARD IDENTIFICATION**

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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



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### 2. HAZARD IDENTIFICATION

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**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%

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Synonyms:** BC, SDC, Sodium Bicarbonate

This product is a mixture.



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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Component	CAS Number	Concentration
Sodium Bicarbonate	144-55-8	88 - 92%
Calcium Carbonate	471-34-1	4 - 8%
Mica	12001-26-2	1 - 5%
Clay	1332-58-7	< 2%
Amorphous Silica	7631-86-9	< 2%

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

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### 4. FIRST- AID MEASURES

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#### 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.

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### 5. FIRE - FIGHTING MEASURES

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#### 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.

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### 6. ACCIDENTAL RELEASE MEASURES

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#### 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.



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### 6. ACCIDENTAL RELEASE MEASURES

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#### 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.

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### 7. HANDLING AND STORAGE

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#### 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

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### Control parameters

Exposure limits are listed below, if they exist.

#### Mica

ACGIH TLV: 3 mg/m<sup>3</sup> TWA, measured as respirable fraction of the aerosol.

OSHA PEL: 20 mppcf, <1% crystalline silica

#### Calcium Carbonate

OSHA PEL: 15 mg/m<sup>3</sup> TWA, total dust

5 mg/m<sup>3</sup> TWA, respirable fraction

#### Clay as Kaolin, Respirable Fraction

ACGIH TLV: 2 mg/m<sup>3</sup> TWA

OSHA PEL: 15 mg/m<sup>3</sup> TWA, total dust

5 mg/m<sup>3</sup> TWA, respirable fraction

#### Nuisance Dust Limit

OSHA PEL: 50 mppcf or 15 mg/m<sup>3</sup> TWA, total dust

15 mppcf or 5 mg/m<sup>3</sup> 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.



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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### Eye/Face Protection

Chemical goggles or safety glasses with side shields.

#### Body Protection

Normal work wear.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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#### Non- Pressurized

##### Appearance

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

#### Expellant

##### Appearance

	<b>Physical State</b>	Compressed gas
	<b>Color</b>	Colorless
<b>Odor</b>		None
<b>Odor Threshold</b>		No data available
<b>pH</b>		Not applicable
<b>Specific Gravity</b>		0.075 lb/ft <sup>3</sup> @70°F as vapor (Nitrogen) 0.1144 lb/ft <sup>3</sup> (Carbon dioxide gas density)
<b>Boiling Range/Point (°C/F)</b>		-196°C/-321 °F(Nitrogen) -78.5 °C /-109.3°F(Carbon Dioxide)
<b>Melting Point (°C/F)</b>		No data available
<b>Flash Point (PMCC) (°C/F)</b>		Not flammable
<b>Vapor Pressure</b>		838 psig @70°F and 1 atmosphere(Carbon Dioxide)
<b>Evaporation Rate (BuAc=1)</b>		No data available
<b>Solubility in Water</b>		No data available
<b>Vapor Density (Air = 1)</b>		Not applicable
<b>VOC (g/l)</b>		None



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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>VOC (%)</b>	None
<b>Partition coefficient (n-octanol/water)</b>	No data available
<b>Viscosity</b>	Not applicable
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Upper explosive limit</b>	Not explosive
<b>Lower explosive limit</b>	Not explosive
<b>Flammability (solid, gas)</b>	Not flammable

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**10. STABILITY AND REACTIVITY**

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**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

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**11. TOXICOLOGICAL INFORMATION**

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**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



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### 11. TOXICOLOGICAL INFORMATION

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#### 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 crystalline 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.



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**11. TOXICOLOGICAL INFORMATION**

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**Aspiration Hazard**

Not an aspiration hazard.

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**12. ECOLOGICAL INFORMATION**

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**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.

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**13. DISPOSAL CONSIDERATIONS**

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**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.

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**14. TRANSPORT INFORMATION**

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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.

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





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**14. TRANSPORT INFORMATION**

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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.

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**15. REGULATORY INFORMATION**

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**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.

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**16. OTHER INFORMATION**

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**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



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**16. OTHER INFORMATION**

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**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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