

# Material Safety Data Sheet

Material Name: Carbon Dioxide and Isopropyl Alcohol

ID: KA015EU

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

**Chemical Name:** Carbon Dioxide

**Product Use:** Create Pressure for Extinguishing Fires

**Synonyms:** Water portable fire extinguisher

**Manufacturer Information**

Kidde Aerospace  
4200 Airport Drive, NW  
Wilson, NC 27896

Phone: 252-246-7004

Emergency # 1-800-451-8346; 760-602-8700 (3E Company)

## \*\*\* Section 2 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
124389	Carbon dioxide	99.5
67630	Isopropyl Alcohol	0.05

**Component Information/Information on Non-Hazardous Components**

This product is considered to be hazardous under 29 CFR 1910.1200 (Hazard Communication).

**Component Analysis**

No information is available.

## \*\*\* Section 3 - Hazards Identification \*\*\*

**Substance Preparation Classification**

Not classified.

**Emergency Overview**

WARNING! The pressurized release of this product will cause injury.

**Potential Health Effects: Eyes**

The pressurized release of this product will cause injury to the eyes.

**Potential Health Effects: Skin**

The pressurized release of this product will cause injury to the skin.

**Potential Health Effects: Ingestion**

Not Applicable.

**Potential Health Effects: Inhalation**

Inhalation is not a likely route of entry.

## \*\*\* Section 4 - First Aid Measures \*\*\*

**First Aid: Eyes**

If eyes come into contact with pressurized product get immediate medical attention. Gently rinse eyes with cool water until medical attention arrives.

**First Aid: Skin**

For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

**First Aid: Ingestion:**

Not Applicable

**First Aid: Inhalation**

If inhaled, immediately remove the affected person to fresh air.

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## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

**Flash Point:** Not applicable

**Upper Flammable Limit (UFL):** Not applicable

**Auto Ignition:** Not applicable

**Rate of Burning:** Not applicable

**General Fire Hazards**

Product itself is not flammable.

**Hazardous Combustion Products**

Not applicable.

**Extinguishing Media**

Not applicable.

**Fire Fighting Equipment/Instructions**

Not applicable.

**Method Used:** Not applicable

**Lower Flammable Limit (LFL):** Not applicable

**Flammability Classification:** Not applicable

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

**Containment Procedures**

Not applicable.

**Clean-Up Procedures**

Not applicable.

**Evacuation Procedures**

Not applicable.

**Special Procedures**

Not applicable.

## \*\*\* Section 7 - Handling and Storage \*\*\*

**Handling Procedures**

Do not get into contact with the eyes or skin.

**Storage Procedures**

Store in accordance with all current regulations and standards. Keep away from heat. Protect from physical damage.

**Specific Use**

*Provides pressure to fire extinguishing so agent can be dispersed.*

## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

**A: Component Exposure Limits**

**Carbon dioxide (124-38-9)**

ACGIH: 30,000 ppm STEL  
5000 ppm TWA

Austria: 10000 ppm STEL (60 min); 18000 mg/m3 STEL (60 min)  
5000 ppm MAK; 9000 mg/m3 MAK

Belgium: 30000 ppm VLE; 54784 mg/m3 VLE  
5000 ppm VLE; 9131 mg/m3 VLE

Denmark: 5000 ppm TWA; 9000 mg/m3 TWA

Finland: 5000 ppm TWA; 9000 mg/m3 TWA

Germany: 5000 ppm TWA; 9100 mg/m3 TWA  
5000 ppm MAK; 9100 mg/m3 MAK

10,000 ppm Peak; 18,200 mg/m3 Peak

Greece: 5000 ppm STEL; 54000 mg/m3 STEL  
5000 ppm TWA; 9000 mg/m3 TWA

Ireland: 15000 ppm STEL; 27000 mg/m3 STEL

5000 ppm TWA; 9000 mg/m3 TWA

Netherlands: 5000 ppm MAC; 9000 mg/m3 MAC

Portugal: 5000 ppm TWA

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Spain: 15000 ppm VLA-EC; 27400 mg/m<sup>3</sup> VLA-EC  
5000 ppm VLA-ED; 9150 mg/m<sup>3</sup> VLA-ED  
Sweden: 5000 ppm LLV; 9000 mg/m<sup>3</sup> LLV  
10000 ppm STV; 18000 mg/m<sup>3</sup> STV  
United Kingdom: 5000 ppm TWA; 9150 mg/m<sup>3</sup> TWA  
15,000 ppm STEL; 27,400 mg/m<sup>3</sup> STEL

### Engineering Controls

Provide adequate ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear safety goggles.

#### Personal Protective Equipment: Skin

Use of impervious gloves are recommended.

#### Personal Protective Equipment: Respiratory

Not applicable.

#### Personal Protective Equipment: General

### \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b> Colorless	<b>Odor:</b> Odorless
<b>Physical State:</b> Gas	<b>pH:</b> Not applicable
<b>Vapor Pressure:</b> 844.7 psia @ 70°F (21°C)	<b>Vapor Density:</b> Not available
<b>Boiling Point:</b> -109.3°F (-78°C)	<b>Melting Point:</b> -69.8°F (-56.6°C)
<b>Solubility (H<sub>2</sub>O):</b> Soluble @ 68°F (20°C)	<b>Specific Gravity:</b> 1020 kg/m <sup>3</sup>

### \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

#### Chemical Stability

This is a stable material.

#### Chemical Stability: Conditions to Avoid

Protect container from heat and physical damage.

#### Incompatibility

Forms carbonic acid in the presence of water.

Avoid contact with mixtures of Sodium peroxide with Aluminum or magnesium reactive materials.

#### Hazardous Decomposition

Will not occur.

#### Hazardous Polymerization

Will not occur.

### \*\*\* Section 11 - Toxicological Information \*\*\*

#### Acute and Chronic Toxicity

##### A: General Product Information

Not applicable.

##### B: Component Analysis

Not applicable.

#### Carcinogenicity

##### A: General Product Information

No information available for the product.

##### B: Component Carcinogenicity

None of the substances in this preparation are listed by IARC, Austria, Belgium, Denmark, France, Germany, Ireland, Luxembourg, Netherlands, Spain, or United Kingdom.

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## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

### Environmental Fate

No information available for the product.

## \*\*\* Section 13 - Disposal Considerations \*\*\*

### Waste Disposal Instructions

Dispose according to national, regional and local regulations.

## \*\*\* Section 14 - Transportation Information \*\*\*

### IATA Information

Shipping Name: Carbon Dioxide

UN/NA#: UN1013 Hazard Class: 2.2

### ICAO Information

Shipping Name: Carbon Dioxide

UN/NA#: UN1013 Hazard Class: 2.2.

### IMDG Information

Shipping Name: Carbon Dioxide

UN/NA#: UN1013 Hazard Class: 2.2

### ADR Information

Shipping Name: Carbon Dioxide

UN/NA#: UN1013 Hazard Class: 2

### RID Information

Shipping Name: Carbon Dioxide

UN/NA#: UN1013 Hazard Class: 2

## \*\*\* Section 15 - Regulatory Information \*\*\*

### European Union Regulatory Information

#### A: General Product Information

Not classified.

S9 Keep container in a well-ventilated place.

#### A: Component Analysis - Inventory

Component	CAS #	EEC	CAN	TSCA
Isopropyl Alcohol	67630	EINECS	DSL	Yes
Carbon dioxide	124389	EINECS	DSL	Yes

#### B: Seveso II Directive - Qualifying Quantities

No information is available.

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### \*\*\* Section 16 - Other Information \*\*\*

#### Key/Legend

TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NTP = National Toxicology Program; IATA = International Air Transport Association; IMO = International Maritime Organization; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; DFG = *Deutsche Forschungsgemeinschaft*; MAC/MAK = Maximum Concentration Value in the Workplace; TWA = Time Weighted Average; STEL = Short-term Exposure Limit; EINECS = European Inventory of Existing Commercial Chemical Substances; EEC = European Economic Community; VLA/VLE = Work Exposure Threshold; OEL = Occupational Exposure Limit; NA = Not Applicable or Not Available.

#### Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This is the end of MSDS # KA015EU