Material Safety Data Sheet

Material Name: Fire Extinguisher using water, potassium acetate, carbon dioxide and ethylene glycol **ID: KA010**

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

Chemical Name: Anti-freeze/water mixture
Product Use: Extinguishing Fires
Synonyms: Water portable fire extinguisher
Manufacturer Information

Kidde Aerospace
4200 Airport Drive, NW
Wilson, NC 27896

Phone: 252-237-7004

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

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

CAS #	Component	Percent
7732-18-5	Water	54.98
127-08-2	Potassium acetate	39.54
107-21-1	Ethylene glycol	4.93
124-38-9	Carbon dioxide	0.53

Component Information/Information on Non-Hazardous Components

This product is considered to be hazardous under 29 CFR 1910.1200 (Hazard Communication). This is a controlled product under the criteria specified in the Canadian Workplace Hazardous Materials Information System (WHMIS).

This product contains < 0.1% isopropanol.

* * * Section 3 - Hazards Identification * * *

Emergency Overview

WARNING! The pressurized release of this product will cause injury. The liquid itself is mildly irritating.

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. The liquid itself is mildly irritating to the skin.

Potential Health Effects: Ingestion

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential Health Effects: Inhalation

Inhalation is not a likely route of entry.

HMIS Ratings: Health: 1 **Fire:** 0 **Physical Hazard:** 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

* * * 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

If the material is swallowed, get immediate medical attention or advice.

First Aid: Inhalation

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

* * * Section 5 - Fire Fighting Measures * * *

Flash Point: Not applicable
Method Used: Not applicable
Upper Flammable Limit (UFL): Not applicable
Lower Flammable Limit (LFL): Not applicable
Auto Ignition: Not applicable
Flammability Classification: Not applicable
Rate of Burning: Not applicable

General Fire Hazards

Product itself is not flammable.

Hazardous Combustion Products

Irritating and/or toxic gases may be emitted upon the product's decomposition.

Extinguishing Media

Use methods for the surrounding fire.

The use of water as an extinguishing media may not be effective for liquid fires (especially those which are insoluble in water and float on water such as hydrocarbons), certain hot metals and electrical fires.

Fire Fighting Equipment/Instructions

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Use water to cool fire-exposed containers and to protect personnel.

NFPA Ratings: Health: 1 **Fire:** 0 **Reactivity:** 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

* * * Section 6 - Accidental Release Measures * * *

Containment Procedures

Stop the flow of material, if this is without risk.

Clean-Up Procedures

Evacuate the area promptly. Ventilate the contaminated area. Use appropriate respiratory equipment. Absorb spill with inert material. Shovel material into appropriate container for disposal.

Evacuation Procedures

Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.

Special Procedures

Regulations vary. Consult local authorities before disposal.

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Do not get into contact with the eyes or skin. Inspect extinguisher to insure container integrity. Do not mix with other extinguishing agents.

Storage Procedures

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

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

A: Component Exposure Limits

Carbon dioxide (124-38-9)

ACGIH:	5000 ppm TWA
	30,000 ppm STEL
OSHA:	10,000 ppm TWA; 18,000 mg/m3 TWA
	30,000 ppm STEL; 54,000 mg/m3 STEL
NIOSH:	5000 ppm TWA; 9000 mg/m3 TWA
	30000 ppm STEL; 54000 mg/m3 STEL

Engineering Controls

Ventilation is not normally required.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety goggles and face shield.

Personal Protective Equipment: Skin

Use of impervious gloves and boots are recommended. Use of protective cothing is recommended.

Personal Protective Equipment: Respiratory

Under normal conditions, respirator is not normally required.

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

Appearance:	Clear to cloudy	**Odor:**	Odorless
Physical State:	Liquid	**pH:**	Slightly acidic
Vapor Pressure:	Not available	**Vapor Density:**	Not available
Boiling Point:	Not available	**Melting Point:**	Not available
Solubility (H2O):	Soluble	**Specific Gravity:**	Not available

* * * 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

Strong oxidizing agents and water reactive material.

Hazardous Decomposition

Irritating and/or toxic gases may be emitted upon the product's decomposition.

Hazardous Polymerization

Will not occur.

* * * Section 11 - Toxicological Information * * *

Acute and Chronic Toxicity

A: General Product Information

This product is mildly irritating.

B: Component Analysis - LD50/LC50

Potassium acetate (127-08-2)

Oral LD50 Rat: 3250 mg/kg

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

* * * 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 * * *

US EPA Waste Number & Descriptions

A: General Product Information

Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

* * * Section 14 - Transportation Information * * *

US DOT Information

Shipping Name: Not regulated.

TDG Information

Shipping Name: Not regulated.

* * * Section 15 - Regulatory Information * * *

US Federal Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List and the Canadian Domestic Substance List (DSL).

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

Acute Health: Yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactive:** No

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Carbon dioxide	124-38-9	Yes	Yes	Yes	Yes	Yes	Yes

Canadian WHMIS Information

A: General Product Information

This product has been classified in accordance with the Canadian Controlled Products Regulations (CPR) and this MSDS contains all of the information required by the CPR.

B: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

WHMIS Classification: D2B

Additional Regulatory Information

A: General Product Information

No additional information available.

B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Water	7732-18-5	Yes	DSL	EINECS
Potassium acetate	127-08-2	Yes	DSL	EINECS
Ethylene glycol	107-21-1	Yes	DSL	EINECS
Carbon dioxide	124-38-9	Yes	DSL	EINECS

* * * Section 16 - Other Information * * *

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.

MSDS History

MSDS History New MSDS, 9/23/2004

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Products Regulations; DOT = Department of Transportation; DSL = Domestic Substances List; EINECS = European Inventory of Existing Commercial Chemical Substances; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m3 = milligrams per Cubic Meter; MSHA = Mine Safety and Health Administration; NA = Not Applicable or Not Available; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; SARA = Superfund Amendments and Reauthorization Act; TDG = Transport Dangerous Goods; TSCA = Toxic Substances Control Act; WHMIS = Workplace Hazardous Materials Information System.

This is the end of MSDS # KA010