

SAFETY DATA SHEET

Kidde APC (Fire Extinguishing Agent Pressurized and Non-pressurized)

1. IDENTIFICATION

Product Name Kidde APC (Fire Extinguishing Agent, Pressurized and

Non-pressurized)

Other Names Aqueous Potassium Carbonate, WHDR System Wet

Chemical, Karbaloy

Recommended use of the chemical and

restrictions on use

Identified uses Fire Extinguishing Agent

Restrictions on useDo not use on electrically energized equipment. Consult

applicable fire protection codes.

Company Identification Kidde-Fenwal, Inc.

400 Main Street Ashland, MA 01721

USA

Customer Information Number Emergency Telephone Number (508) 881-2000

CHEMTREC Number (800) 424-9300

(703) 527-3887 (International)

Issue Date April 10, 2015
Supersedes Date January 13, 2011

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)

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

Serious eye damage/eye irritation: Category 2A

Specific Target Organ Toxicity (STOT) - single exposure: Category 3

Gas under pressure - Compressed gas

Label Elements

Hazard Symbols





Signal Word: Warning

Revision Date: April 10, 2015 Page 1 of 9



2. HAZARD IDENTIFICATION

Hazard Statements

Causes serious eye irritation.

May cause respiratory irritation.

Contents under pressure; may explode if heated.

Precautionary Statements

Prevention

Wash hands thoroughly after handling.

Wear eye protection/face protection.

Avoid breathing mists or spray.

Use only outdoors or in a well-ventilated area.

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists, get medical advice/attention.

If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing.

Call a poison center or doctor if you feel unwell.

Storage

Store locked up.

Protect from sunlight and store in well-ventilated place.

Keep container tightly closed.

Disposal

Dispose of contents/container in accordance with local regulation.

GHS Classification: Non - pressurized

Hazard Classification

Serious eye damage/eye irritation: Category 2A

Specific Target Organ Toxicity (STOT) - single exposure: Category 3

Label Elements

Hazard Symbols



Signal Word: Warning

Hazard Statements

Causes serious eye irritation. May cause respiratory irritation.

Precautionary Statements

Prevention

Wash hands thoroughly after handling.

Wear eye protection/face protection.

Avoid breathing mists or spray.

Use only outdoors or in a well-ventilated area.

Revision Date: April 10, 2015 Page 2 of 9



2. HAZARD IDENTIFICATION

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists, get medical advice/attention.

If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing.

Call a poison center or doctor if you feel unwell.

Storage

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Disposal

Dispose of contents/container in accordance with local regulation.

Other Hazards

Possible electrocution hazard if used on electrically energized equipment.

Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity 0%
Acute dermal toxicity 0%
Acute inhalation toxicity 0%
Acute aquatic toxicity 0%

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

ComponentCAS NumberConcentrationWater7732-18-550-60%Potassium Carbonate584-08-740-50%

Note: Pressurized product uses nitrogen as the expellant.

4. FIRST- AID MEASURES

Description of necessary first-aid measures

Eves

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.

Inhalatior

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

Revision Date: April 10, 2015 Page 3 of 9



4. FIRST- AID MEASURES

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 fire. Use extinguishing agent appropriate to other materials involved. Keep pressurized containers 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 container to a safe place. Ventilate the area.

Environmental Precautions

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

Methods and materials for containment and cleaning up

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

Revision Date: April 10, 2015 Page 4 of 9



SAFETY DATA SHEET

Kidde APC (Fire Extinguishing Agent Pressurized and Non-pressurized)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Potassium Carbonate

None assigned.

Appropriate engineering controls

Use with adequate ventilation. 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

Respiratory protection not normally required. In oxygen deficient atmospheres, use a self contained breathing apparatus, as an air purifying respirator will not provide protection.

Skin Protection

Gloves

Eye/Face Protection

Chemical goggles or safety glasses with side shields.

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Agent - Kidde APC

Appearance

Physical State Liquid
Color Clear

Odor Odorless

Odor Threshold No data available

pH >11 Specific Gravity ~1.4

Boiling Range/Point (°C/F)

Melting Point (°C/F)

Flash Point (PMCC) (°C/F)

Vapor Pressure

Evaporation Rate (BuAc=1)

108.9°C/228°F

No data available

No data available

No data available

Solubility in Water Soluble

Vapor Density (Air = 1) Not applicable

VOC (g/l) None VOC (%) None

Partition coefficient (n- No data available

octanol/water)

Viscosity
Auto-ignition Temperature
Decomposition Temperature
Upper explosive limit
Lower explosive limit
Flammability (solid, gas)

No data available

Revision Date: April 10, 2015 Page 5 of 9



SAFETY DATA SHEET

Kidde APC (Fire Extinguishing Agent Pressurized and Non-pressurized)

9. PHYSICAL AND CHEMICAL PROPERTIES

Expellant - Nitrogen

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

Boiling Range/Point (°C/F)

Melting Point (°C/F)

Flash Point (PMCC) (°C/F)

Vapor Pressure

Evaporation Rate (BuAc=1)

Solubility in Water

Vapor Density (Air = 1)

No data available

VOC (g/l) None VOC (%) None

Partition coefficient (n- No data available

octanol/water)

Viscosity

Auto-ignition Temperature

Decomposition Temperature
Upper explosive limit
Lower explosive limit
Flammability (solid, gas)

Not applicable
No data available
Not explosive
Not explosive
Not flammable

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

Acids - ammonium compounds - metals - water reactive materials

Hazardous Decomposition Products

Oxides of carbon

Revision Date: April 10, 2015 Page 6 of 9



SAFETY DATA SHEET Kidde APC (Fire Extinguishing Agent Pressurized

(Fire Extinguishing Agent Pressurized and Non-pressurized)

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Potassium Carbonate
Oral LD50 (Rat) >2000 mg/kg
Dermal LD50 (Rabbit) >2000mg/kg
Inhalation LC50 (Rat) >4.96 mg/l
Nitrogen
Simple asphyxiant

Specific Target Organ Toxicity (STOT) - single exposure

Potassium Carbonate: Inhalation can cause respiratory irritation.

<u>Nitrogen:</u> 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

Potassium Carbonate: No relevant studies identified.

Serious Eye damage/Irritation

Potassium Carbonate: Irritating to eyes in animal studies.

Skin Corrosion/Irritation

Kidde APC: Slightly irritating (Primary Dermal Irritation Study)

Respiratory or Skin Sensitization

Available data indicates this product is not expected to cause skin sensitization.

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity

Available data indicates this product is not expected to be mutagenic.

Reproductive Toxicity

Potassium Carbonate: No relevant studies identified.

Aspiration Hazard

Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Potassium Carbonate LC50 Bluegill sunfish 230mg/l 96h EC50 Daphnia pulex 200mg/l 48h

Mobility in soil

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Revision Date: April 10, 2015 Page 7 of 9



12. ECOLOGICAL INFORMATION

Bioaccumulative Potential

No relevant studies identified.

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 pressurized container. If spilled, expellant 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. Specific volumes, pressures or hardware configurations containing such materials can dictate various different hazard classifications for transportation and labelling requirements. Under Federal Regulations only trained and qualified individuals are permitted to label and ship products following the applicable Department of Transportation (DOT), Federal Aviation Administration (FAA), Transport Canada (TC), International Maritime Dangerous Goods (IMDG) or International Air Transport Association (IATA) requirements.

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

Immediate (Acute) Health Hazard, Pressure hazard

SARA Title III Sect. 311/312 Categorization: Non-pressurized

Immediate (Acute) Health Hazard

SARA Title III Sect. 313

This product does not contain any chemicals listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Health - 2

NFPA Code for Flammability - 0

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - None

Revision Date: April 10, 2015 Page 8 of 9



16. OTHER INFORMATION

HMIS Ratings

HMIS Code for Health - 2 HMIS Code for Flammability - 0 HMIS Code for Physical Hazard - 0 HMIS Code for Personal Protection - See Section 8 *Chronic

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: April 10, 2015 Replaces: January 13, 2011

Changes made: Updated to GHS Classification.

Information Source and References

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

Prepared By: EnviroNet LLC.

The information and recommendations presented in this SDS are based on sources believed to be accurate. Kidde-Fenwal, Inc. assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the material for their particular purposes. In particular, we make NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use or disposal of the material is in accordance with applicable Federal, State, and local laws and regulations.

Revision Date: April 10, 2015 Page 9 of 9