

APC

(Fire Extinguishing Agent Pressurized and Non-pressurized)

1. IDENTIFICATION

Product Name APC (Fire Extinguishing Agent, Pressurized and Non-

pressurized)

Other Names Aqueous Potassium Carbonate, WHDR System Wet

Chemical

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, LLC

400 Main Street Ashland, MA 01721

(508) 881-2000

USA

Customer Information Number Emergency Telephone Number

CHEMTREC Number (800) 424-9300

(703) 527-3887 (International)

Issue DateSupersedes Date
July 9, 2024
February 10, 2020

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200), the Canadian Hazardous Products Regulations (HPR) 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

Hazard Statements

Causes serious eye irritation. May cause respiratory irritation.

Contents under pressure; may explode if heated.

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2. HAZARD IDENTIFICATION

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.

Response

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

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2. HAZARD IDENTIFICATION

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.

 Component
 CAS Number
 Concentration*

 Water
 7732-18-5
 30 – 60%

 Potassium Carbonate
 584-08-7
 30 – 60%

Note: Pressurized product uses nitrogen 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.

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^{*}Exact concentration withheld as trade secret.



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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.

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

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.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Eve/Face Protection

Chemical goggles or safety glasses with side shields.

Body Protection

Normal work wear.

PHYSICAL AND CHEMICAL PROPERTIES

Agent - APC

Appearance

Odor

Physical State Liquid
Color Clear
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
No data available
No data available
No data available
Not explosive
Not explosive
Not applicable

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

-196°C/-321°F

-210°C/-346°F

Not flammable

No data available

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9. PHYSICAL AND CHEMICAL PROPERTIES

Evaporation Rate (BuAc=1) Not applicable
Solubility in Water 0.02 g/L
Vapor Density (Air = 1) 0.97

VOC (g/l)

VOC (%)

Partition coefficient (n
Not applicable
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

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.

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11. TOXICOLOGICAL INFORMATION

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.

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.

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14. TRANSPORT INFORMATION

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

Pressurized Containers

DOT CFR 172.101 Data Fire extinguishers, 2.2, UN1044

UN Proper Shipping Name Fire extinguishers

UN Class (2.2)
UN Number UN1044
UN Packaging Group Not applicable

Classification for AIR Consult current IATA Regulations prior to shipping by air.

Transportation (IATA)

Classification for Water Consult current IMDG Regulations prior to shipping by water.

Transport IMDG

Non-pressurized Containers

DOT CFR 172.101 Data UN Proper Shipping NameNot Regulated
Not Regulated

UN Class None.
UN Number None.
UN Packaging Group None.

Classification for AIR Consult current IATA Regulations prior to shipping by air.

Transportation (IATA)

Classification for Water Consult current IMDG Regulations prior to shipping by water.

Transport IMDG

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

Gas under pressure, Serious eye irritation, Specific Target Organ Toxicity - single exposure

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

Serious eye irritation, Specific Target Organ Toxicity – single exposure

SARA Title III Sect. 313

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

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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

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: July 9, 2024

Replaces: October February 10, 2020 Changes made: Updated Company Name.

Information Source and References

This SDS is prepared by Kidde-Fenwal, LLC based on information provided by internal company references.

The information and recommendations presented in this SDS are based on sources believed to be accurate. Kidde-Fenwal, LLC 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.



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