

**1. IDENTIFICATION**

<b>Product Name</b>	APC (Fire Extinguishing Agent, Pressurized and Non-pressurized)
<b>Other Names</b>	Aqueous Potassium Carbonate, WHDR System Wet Chemical
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Identified uses</b>	Fire Extinguishing Agent
<b>Restrictions on use</b>	Do not use on electrically energized equipment. Consult applicable fire protection codes.
<b>Company Identification</b>	Kidde-Fenwal, Inc. 400 Main Street Ashland, MA 01721 USA (508) 881-2000
<b>Customer Information Number</b>	
<b>Emergency Telephone Number</b>	
<b>CHEMTREC Number</b>	(800) 424-9300 (703) 527-3887 (International)
<b>Issue Date</b>	February 10, 2020
<b>Supersedes Date</b>	October 1, 2015 (Kidde APC)

*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.**

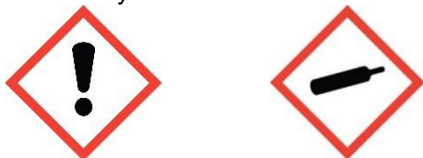
**GHS Classification – Pressurized**

**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**

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**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.  
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.

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**2. HAZARD IDENTIFICATION**

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**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%

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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This product is a mixture.

<b>Component</b>	<b>CAS Number</b>	<b>Concentration*</b>
Water	7732-18-5	30 – 60%
Potassium Carbonate	584-08-7	30 – 60%

**Note: Pressurized product uses nitrogen as the expellant.**

\*Exact concentration withheld as trade secret.

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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 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.

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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 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.

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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 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

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**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.

**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

**Eye/Face Protection**

Chemical goggles or safety glasses with side shields.

**Body Protection**

Normal work wear.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Agent - APC**

**Appearance**

	<b>Physical State</b>	Liquid
	<b>Color</b>	Clear
<b>Odor</b>		Odorless
<b>Odor Threshold</b>		No data available
<b>pH</b>		>11
<b>Specific Gravity</b>		~1.4
<b>Boiling Range/Point (°C/F)</b>		108.9°C/228°F
<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>		Soluble
<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>		Not explosive
<b>Lower explosive limit</b>		Not explosive
<b>Flammability (solid, gas)</b>		Not applicable

**Expellant - Nitrogen**

**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
<b>Boiling Range/Point (°C/F)</b>		-196°C/-321°F
<b>Melting Point (°C/F)</b>		-210°C/-346°F
<b>Flash Point (PMCC) (°C/F)</b>		Not flammable
<b>Vapor Pressure</b>		No data available

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Evaporation Rate (BuAc=1)</b>	Not applicable
<b>Solubility in Water</b>	0.02 g/L
<b>Vapor Density (Air = 1)</b>	0.97
<b>VOC (g/l)</b>	Not applicable
<b>VOC (%)</b>	Not applicable
<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**

Acids - ammonium compounds - metals - water reactive materials

**Hazardous Decomposition Products**

Oxides of carbon

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**11. TOXICOLOGICAL INFORMATION**

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**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.

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.

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**11. TOXICOLOGICAL INFORMATION**

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**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.

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**12. ECOLOGICAL INFORMATION**

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**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.

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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 pressurized container. If spilled, expellant 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.

**Pressurized Containers**

<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.

**Non-pressurized Containers**

<b>DOT CFR 172.101 Data</b>	Not Regulated
<b>UN Proper Shipping Name</b>	Not Regulated
<b>UN Class</b>	None.
<b>UN Number</b>	None.
<b>UN Packaging Group</b>	None.
<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.

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**

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**

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**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: February 10, 2020  
Replaces: October 1, 2015 (Kidde APC)  
Changes made: Update product name and Sections 1, 3, 9, 15, and 16.

**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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