

SAFETY DATA SHEET –

POTASSIUM PERCHLORATE
UN1489 5.1 PGII

Section 1: Identification

Common Name: PHOTO FLASH “A” BOTTLE

Trade Name & Synonyms: POTASSIUM PERCHLORATE

Manufacturer's Name: MP ASSOCIATES INC.

Informational Telephone Number: 1-(209) 274-4715

Address: PO. Box 546
IONE, CA. 95640

Emergency Contact:
ChemTel US 24 Hr.: 1-(800) 255-3924
ChemTel Worldwide Intl.: +01-813-248-0585

Recommended Use: Pyrotechnic and Special Effects Professional Use

Section 2: Hazard(s) Identification

Signal Word
Danger

Pictogram

Hazard Statement

Explosive when mixed with bottle “B” binary mixture. Strong oxidizer. Contact with other material may cause fire. NO SMOKING. Keep away from heat/sparks/open flames/hot surfaces, may cause fire. Inhalation, ingestion or contact (skin eyes) with vapors or substance may cause severe injury, burns or death. Fire may cause toxic gases

Precautionary Statement

Keep contents in original container. Keep out of reach of children. Do not eat, drink or smoke while using this product. Use personal protective equipment as required. Dispose of contents/container by following all local, state and federal laws. Store in original container, in a cool, dry place in accordance with requirements of all local, state and federal laws. Keep container tightly closed. Containers may explode when heated.



Section 3: Composition / information on ingredients

Component

Chemical Name: POTASSIUM PERCHLORATE

CAS-Number

7778-74-7

Weight %

N/A

NOTE: Perchlorate material, special handling may apply. See www.dtsc.ca.gov/hardouswaste/perchlorate for additional information.

WARNING: These products contain chemicals known to the State of California to cause cancer, reproductive harm or birth defects.

Used in explosives, pyrotechnics and photography

Section 4: First-aid measures

Ingestion:

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Eye Contact:

Causes eye irritation. Check for and remove contact lenses, flush eyes with water for 15 minutes, if irritation persists seek medical attention.

Inhalation:

If inhaled remove to fresh air, if not breathing give CPR. If breathing is difficult give oxygen. Get medical attention immediately.

Skin Contact:

After contact with skin, wash immediately, use non-abrasive soap. Prolonged skin contact can cause dermatitis. Remove contaminated clothing. Wash the affected area with copious amounts of water. If irritation persists, seek medical attention.

Injury from fire:

Seek prompt medical attention immediately for burns.

Section 5: Fire-fighting measures

Special Procedures:

May be combustible at high temperatures. Avoid shock and friction. In case of insufficient ventilation, wear suitable respiratory equipment. This product should be kept away from oxidizing and strong bases.

Emergency Response Guidebook: See guide 140

Unusual Hazards:

Forms an explosive mixture when mixed with “B” bottle of binary mixture.

Flash Point:

N/A.

Auto ignition Temp:

N/A

NFPA Ratings:

Health = 1

Flammability = 0

Reactivity = 3



Advice and PPE for Firefighters:

Fires involving explosive mixtures should not be fought unless extinguishing media can be applied from a well protected and distant location from the point of fire. Self-contained breathing apparatus and protective clothing must be worn.

Section 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures:**

Non-flammable or flame retardant clothing should be worn when cleaning up spilled material. Material is sensitive to ignition from sources such as heat, flame, impact, friction or sparks. Therefore, non-sparking utensils should be used.

Spill / leak response:

Use appropriate tools to put the spilled solid in a container. Do Not touch spilled material. Eliminate all ignition sources. Call for assistance on disposal. Prevent entry into sewers, basements or confined spaces. Oxidizing material do not use water jet.

Environmental Precautions:

Clean up spills immediately using non-sparking utensils Do not dispose of in the ground. Spill residues may be disposed of per guidelines under Section 13; Disposal Considerations. Remove all ignition sources, do not eat, drink, smoke when working. Avoid contact with eyes. keep unauthorized persons away. Avoid friction or impact. Contaminated materials must be disposed of as waste according to Section 13.

Section 7: Handling and storage**Storage Conditions:**

Empty containers pose a fire risk. Store in a cool, dry place. Keep container tightly closed until ready for use. Do Not breath dust. Avoid, impact, friction and static. Protect against heat effects. Keep away from combustibles.

Absolutely no smoking around flammable solids. Keep away from combustibles.

Do not store in the same area with incompatibles as oxidizing agents, acids and moisture. Ground all equipment containing material.

Keep out of reach of children. Handle article container with care.

Follow all local, state and federal laws when storing this product.

Section 8: Exposure controls / personal protection**Personal protection for routine use:**

Keep airborne levels below recommended exposure limits. Use ventilation to keep exposure to airborne contaminants below the exposure limit. Safety glasses, Lab coat, Dust respirator.

Be sure to use approved/certified respirator or equivalent

Rubber gloves may be worn to protect shin. ANSI approved safety goggles are recommended for eye protection.

Other protective equipment is determined by manner in which product is being used.

Mixture becomes an explosive with mixed with Bottle "B" of binary mixture. Exposure to open flame may cause severe burns.

Section 9: Physical and chemical properties

<u>Appearance:</u>	Crystalline solid	<u>Autoignition Temperature</u>	N/A
<u>PH:</u>	Not Applicable	<u>Percent Volatile by Volume %:</u>	N/A
<u>Odor:</u>	Odorless.	<u>Dispersion Properties:</u>	N/A
<u>Boiling Point:</u>	Data unavailable	<u>Specific Gravity:</u>	N/A
<u>Melting Point:</u>	Data unavailable	<u>Solubility in water:</u>	Soluble in cold, hot water, and Methanol.
<u>Critical Temperature:</u>	Not available		Partially soluble in Acetone.
<u>Explosive Properties:</u>	N/A		Insoluble in Diethyl Ether.
<u>Vapor Pressure:</u>	N/A		
<u>Vapor Density:</u>	N/A		

Section 10: Stability and reactivity

General Information: This product is unstable. Instability with heat, incompatible with oxidizing agents, acids, moisture.

Corrosively: Non-corrosive in presence of glass.

Conditions to Avoid: This product is extremely reactive or incompatible with reducing agents, combustible materials, organic materials. Reactive with acids..

Section 11: Toxicological information**Routes of Entry:**

Absorbed through skin. Dermal contact. Eye contact, inhalation or ingestion.

Other toxic Effects on Humans:

The substance is toxic and causes damage to blood and kidneys. Hazardous in case of skin contact (irritant) or ingestion. Hazardous in case of inhalation.

Special Remarks:

Developmental Effects: PC only. Perchlorate exposure at certain levels can disrupt the function of the thyroid gland by interfering with the iodide uptake and thyroid hormone production. The interference may lead to developmental defects. Scientists consider pregnant woman, children, infants and individuals with thyroid disorders to be the population most at risk of harm from being exposed to perchlorate.

May cause eye irritation by mechanical action. Low hazard for usual handling. It may cause respiratory tract irritation.

Section 12: Ecological information

Possibly hazardous short term degradation products are not likely, However, long term degradation products may arise.

Section 13: Disposal considerations

Dispose of in accordance with federal, state and local requirements.

Care must be taken to prevent environmental contamination from use of this material. The user has the responsibility to dispose of unused materials, residues and containers in compliance with all relevant laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous waste.

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Do not dispose of in a fire.

Section 14: Transport information**Label Required:****Highway:**

Class or Division: 5.1, PG II

UN Number: UN1489

Shipping Name: Potassium perchlorate

Air Transport:

UN1489 Potassium perchlorate
5.1, PG II

Maritime IMDG:

UN1489 Potassium perchlorate
5.1, PG II

Section 15: Regulatory information

All products related to oxidizers are reported annually as per Community Right-to Know (Tier II). Oxidizers have been approved and copies of the approvals are on file with the Director of the Safety and Compliance Department.

Section 16: Other information

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Disclaimer:

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