

# SAFETY DATA SHEET –

ARTICLES PYROTECHNIC  
UN0431 1.4G EXPLOSIVE

## Section 1: Identification

**Common Name:** SIMULATED PHOSPHORUS (56 grams)

**Trade Name & Synonyms:**

**Manufacturer's Name:** MP ASSOCIATES INC.

**Address:** PO. Box 546  
IONE, CA. 95640

**Recommended Use:** Pyrotechnic Special Effects for Professional Use Only

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

**Emergency Contact:**

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

## Section 2: Hazard(s) Identification

**Signal Word**

**Warning**

**Hazard Statement**

Fire or projection hazard, NO SMOKING.  
Keep away from heat/sparks/open flames/hot surfaces, may cause fire.  
Never break open or empty contents of article or container, powder may be harmful if contents of article are ingested.  
Exposed powder may cause an allergic skin reaction, or eye irritation.  
Never attempt to fight a pyrotechnic fire.

**Precautionary Statement**

May cause burns.  
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 27CFR555.201 555.219 (ATF Subpart K).

**Pictogram**



## Section 3: Composition / information on ingredients

**Component**

TRADE SECRET - PROPRIETARY

None of the ingredients have materials which are listed in 29CFR 1910.119 Appendix A, as a toxic substance and there are no known exposures to hazardous chemicals upon ignition.

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

Pyrotechnic Articles are designed to produce fire, smoke and noise.

**CAS-Number**

N/A

**Weight %**

N/A

## Section 4: First-aid measures

**Ingestion:**

Not a likely route of exposure. Wash mouth out with water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person, if ingested seek medical attention.

**Eye Contact:**

Not a likely route of exposure. Check for and remove contact lenses, flush eyes with water if irritation persists seek medical attention.

**Inhalation:**

Not a likely route of exposure, and not likely to create a hazardous situation.

**Skin Contact:**

Not a likely route of exposure. Wash the affected area with copious amounts of water. Some persons may be sensitive to the contents of the container if materials are exposed or removed from original article container..

**Injury from fire /detonation:**

Seek prompt medical attention immediately for thermal burns.

**Note to Physician:**

Treat symptomatically.

## Section 5: Fire-fighting measures

**Extinguishing media:**

\*\*\*Special hazards- in case of fire DO NOT attempt to extinguish.\*\*\* Do not use suffocation methods, pyrotechnic devices contain their own oxygen.  
Some materials may react with water.  
Move all personnel to safe distance. Warn the surrounding area in case of fire or explosion forming gases.  
If a large amount of pyrotechnic devices are involved, allow them to burn and prevent spread of fire.

**Special Procedures:**

Water may be used as the extinguishing method. **DO NOT FIGHT EXPLOSIVES FIRES.** Evacuate the area according to Emergency Response Guide 114 guidelines. Isolate the area and guard against any intruders.

**Unusual Hazards:**

Pyrotechnic Composition is extremely flammable and may deflagrate. Get away and evacuate the area. As with any pyrotechnic, if under confinement or piled in slight confinement can explode. No known toxic fumes are emitted, but good ventilation should still be present.

**Flash Point:**

Not applicable.

**Auto ignition Temp:**

Not applicable

**NFPA Ratings:**

Health = 0 Flammability = 4 Reactivity = 1

**Advice and PPE for Firefighters:**

Fires involving Pyrotechnic Composition 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. Follow Emergency Response Guide 114. Wash all clothes prior to reuse.



**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 personal protective equipment. Isolate area and remove sources of friction, impact, heat, low level electrical current, electrostatic or RF energy. Only competent, experienced persons should be involved in cleanup procedures.

**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:**

Store in a cool, dry place in accordance with requirements of 27CFR555.201 555.219 (ATF Subpart K)

Avoid head, impact, friction and static. Protect against heat effects. Keep away from combustibles. Avoid electrostatic changes.

Absolutely no smoking around articles or open packages. Keep away from combustibles. Avoid electrostatic changes.

Store in a cool, dry place. Do not store in the same area with highly combustible materials.

Do not open article container(s), Keep out of reach of children. Handle article container with care.

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

Articles are packaged in individual plastic bags for moisture protection.

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

Respiratory protection is not normally needed.

Good ventilation is not required in open areas.

Gloves may be worn to protect skin if the device is opened and the powders are released, safety glasses are recommended for eye protection.

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

**Health Hazards (acute or chronic):**

TLV is unknown for ingestion of contents.

**Signs / Symptoms of Exposure:**

Exposure to exposed pyrotechnic powders may cause burning or itching of the eyes, nose or skin; or respiratory irritation.

Exposure to open flame may cause severe burns.

**Section 9: Physical and chemical properties****Appearance:**

All pyrotechnic composition is contained in a membrane or a container.

**PH:**

Not available

**Odor:**

None

**Melting Point:**

Not determined

**Boiling Point:**

Not applicable

**Evaporation Rate:**

Not applicable

**Flammability:**

Flammable

**Explosive Properties:**

Pyrotechnic Powder

**Vapor Pressure:**

Not applicable

**Vapor Density:**

Not applicable

**Density:**

Not determined

**Partition coefficient (log Pow)**

Not applicable

**Autoignition Temperature**

Not applicable

**Decomposition Temperature (C):**

Not determined

**Solubility in solvents**

Not determined

**Freezing Point:**

Not applicable

**Solubility in water:**

Slight

Exposure to water may cause item to deteriorate  
If device opened may cause nuisance dust.

**Section 10: Stability and reactivity****General Information:**

Pyrotechnic items produce flame, smoke and audible effect.

**Hazardous decomposition:**

Detonation produces hazardous overpressures and fragments (if confined). Gases produced may be toxic if exposed in area with inadequate ventilation.

**Conditions to Avoid:**

Avoid heat, impact, friction or static. Protect against heat effects. Keep away from heat, open flame and ignition sources. A violent burn or deflagration could occur by above mentioned items.

**Substances to Avoid:**

Some articles may not be compatible with water.

**Section 11: Toxicological information**

I.D. Values: Unknown.  
 TLV: Unknown for ingestion of dust.  
 Some persons may be unusually sensitive to the powder contents, may be irritating to the skin and eyes on contact.  
 Genetic Effects: No information found.  
 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.  
 Ingestion of powders may cause irritation with nausea, vomiting and diarrhea.

**Section 12: Ecological information**

Do not dispose of powder container or residues into any water streams or bodies of water. Avoid spilling contents onto any soils. Clean up any spills promptly.  
 No data available on mixture.

**Section 13: Disposal considerations**

Articles that have been ignited and that have functioned should be disposed 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.  
 Powder can be burned in very small quantities and in this layer and must be ignited from a safe distance only.  
 Desensitize by dilution in diesel fuel or water. Open train burning, by qualified personnel only, may be used for disposal of small unconfined quantities.  
 Do not dispose of the article container of powder in a fire.

**Section 14: Transport information**

Label Required:



Highway:

**Class or Division:** 1.4G, PG II  
**UN Number:** UN0431  
**Shipping Name:** Articles, Pyrotechnic

Air Transport:

**UN0431 Articles, Pyrotechnic  
 1.4G, PG II  
 Cargo Aircraft Only**

Maritime IMDG:

**UN0431 Articles, Pyrotechnic  
 1.4G, PG II**

**Section 15: Regulatory information**

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

**Section 16: Other information**

Prepared By: Dennis King

SDS Creation Date: May 2015, Rev. 06/2021

Disclaimer:

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