

# **SAFETY DATA SHEET**

EFFECTIVE DATE: 8/25/2017

ITEM: Coastal Aerter / Locator Plus

PART # UPC

572 077403105724

# **CONTENTS:**

12 Ga HP (High Performance) Red Aerial Signal SDS

# **SHIPPING INFORMATION**

UN0403, Flares, Aerial, 1.4G (ERG 114) EX2004110275



## SAFETY DATA SHEET

## 1. Product and Company Identification

## 12 Ga HP (High Performance) Red Aerial Signal

Identified Use: Emergency distress signal **Use Advised Against:** Do not use indoors or inside a vehicle

Manufacturers Information Orion Safety Products

> 3157 North 500 West **EMERGENCY** CHEMTREC Peru. IN 46970 1-800-424-9300 US 1-800-851-5260

Intl (11) 1-765-472-4375

## **Hazards Identification**

### **GHS Classifications**

| Explosive               | Category 1.4 | H204 |
|-------------------------|--------------|------|
| Skin Irritation         | Category 2   | H315 |
| Eye Damage / Irritation | Category 1   | H318 |
| Carcinogenicity         | Category 2   | H351 |
| STOT - Single Exposure  | Category 3   | H335 |

### **GHS Label Elements**

Pictograms



#### Hazard Statements

| H204 | Fire or projection hazard        |
|------|----------------------------------|
| H315 | Causes skin irritation           |
| H318 | Causes serious eye damage        |
| H351 | Suspected of causing cancer      |
| H335 | May cause respiratory irritation |

Signal Word Danger

| Precautionary | Statements   | P301/315     | IF SWALLOWED: Get immediate medical advice /attention.                 |
|---------------|--|--------------|--|
| P103          | Keep out of reach of children                          | P302/352     | IF ON SKIN: Wash with plenty of soap and water.                        |
| P210          | Keep away from heat/sparks/open flames/hot surfaces. – | P304/340/342 | IF INHALED: Remove victim to fresh air and keep at rest in a position  |
|               | No smoking.  |              | comfortable for breathing If experiencing respiratory symptoms: Call a |
| P232          | Protect from moisture                                  |              | POISON CENTER or doctor/physician.                                     |
| P261          | Avoid breathing dust/fume                              | P305/338/351 | IF IN EYES: Rinse cautiously with water for several minutes. Remove    |
| D26/          | Wash hands thoroughly after handling                   |              | contact longer if present and easy to do. Continue ringing             |

Wash hands thoroughly after handling. contact lenses, if present and easy to do. Continue rinsing. P270 Do not eat, drink or smoke when using this product. P333/313 If skin irritation or rash occurs, get medical advice/attention. P271 Use only outdoors or in a well-ventilated area. P370 In case of fire: use water deluge

P280 Wear protective eye protection

Hazards Not Otherwise Classified (HNOC): none

### Composition / Information on Ingredients

| 5. Composition/ information   |            |           |      |
|-------------------------------|------------|-----------|------|
| Component                     | CAS#       | EINCS #   | %age |
| Polypropylene                 | 9003-07-0  | polymer   | <60% |
| Glass Fibers                  | 65997-17-3 | 266-046-0 | <20% |
| Strontium Nitrate             | 10042-76-9 | 233-131-9 | <10% |
| Magnesium                     | 7439-95-4  | 231-104-6 | <10% |
| Olefinic Thermoplastic Rubber | mixture    | mixture   | <10% |
| Strontium Peroxide            | 1314-18-7  | 215-224-6 | <10% |
| Aluminum                      | 7429-90-5  | 231-072-3 | <5%  |
| PVC                           | 9002-86-2  | none      | <5%  |
| Black Powder                  | mixture    | none      | <5%  |
| Iron                          | 1309-37-1  | 231-096-4 | <5%  |
| Copper                        | 7440-50-8  | 231-159-6 | <3%  |

Note: Due to Confidential Business Information i.e "Trade Secrets", the exact percentage of each ingredient has not been disclosed. CBI information will be shared with appropriate authorities if circumstances warrant.

### **First Aid Measures**

Description of first aid measures

Inhalation If contents are inhaled, remove to fresh air. Watch for signs of allergic reaction. If other symptoms develop, get

medical aid immediately.

If contents are contacted, wash with area with soap and water for 15 minutes. Remove contaminated clothing and Skin

wash before reuse. Get medical aid if irritation occurs.

If contents get into eye, flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.

Remove contact lenses if easily possible. Get medical aid immediately.

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Ingestion Get medical aid immediately.

Most important symptoms and effects both acute and delayed

See section 2 labeling and section 11

Indication of any immediate medical attention and special treatment

No data available

needed

#### 5. **Firefighting Measures**

Foam and dry chemical extinguishers and **Extinguishing Media** Water deluge Unsuitable Extinguishing Media

suffocation are ineffective.

**Protective Equipment and** Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated **Precautions for Firefighters** in the pressure demand or other positive pressure mode. Prevent further propagation of fire by spraying unburnt

nearby product with water. Combat fire from a sheltered position.

Specific Hazards Arising from

the Chemical

Only use outdoors. Use copious amounts of water to extinguish fire. Using small quantities of water on contents / broken shells can cause auto / re-ignition as contents contain magnesium. Use of water on a magnesium fire will

generate hydrogen gas that may cause an explosion. Irritating fumes. Flaming projectiles may be ejected during a

fire. Trace amounts of lead vapor may be produced (from ignition primer) in a fire situation

Further information No data available

#### 6. **Accidental Release Measures**

Personal Precautions / Protective Equipment / Emergency Procedures

Do not breathe contents and avoid contact with skin and eyes. Wear flame retardant clothing with long sleeves, dust mask, rubber or nitrile gloves, safety goggles, safety shoes. Avoid friction on the released product. Keep away from ignition sources.

#### **Environmental Precautions**

Prevent dispersion of contents on soil and in water. Prevent contents from spreading or entering into drains, ditches, groundwater or rivers by using appropriate

#### Methods for Containment and Clean-up

Use caution when cleaning up spilled product contents. Remove heat, flames, sparks and other sources of ignition. Use non-sparking tools and equipment. Prevent buildup of electrostatic charges by grounding. Clean spills in a manner that does not disperse dust into the air. Do not absorb in sawdust or other combustible absorbents. Pick up spill for recovery or disposal and place in an approved container. Wash away remainder with plenty of water. Collect wash water for approved disposal. Be very careful - magnesium powder may spontaneously ignite in presence of moisture. Magnesium powder reacts with water, producing flammable hydrogen gas.

#### 7. Handling and Storage

Precautions for Safe Handling

Use product only in designated launcher - do not attempt to use in 12 gauge shotgun. Point launcher away from body, other people, animals or combustible products when firing. Wear appropriate eye protection during use. Turn face from launcher when firing. Follow instructions on package. Avoid contact with clothing and other combustible materials. Use outdoors only! Do not ignite or launch product inside a vehicle or building. Avoid ingestion of contents and inhalation of smoke. Wash thoroughly after handling. Avoid contact with heat sparks, and flame. Do not disassemble signal.

Conditions for Safe Storage, Including Any Incompatibilities Store away from moisture, direct sunlight, heat and incompatible materials. See section 10. Store away from food and beverages. Store away from flammable materials, sources of heat, flame and sparks. Store at ambient temperature.

#### 8. **Exposure Controls / Personal Protection**

Control parameters

**Exposure Limits** OSHA PEL **ACGIH TLV** 

Polypropylene Not Established Not Established 15 mg/m3 (as total nuisance dust); 5 mg/m3 (as respirable Glass Fibers 1 f/cc TWA (respirable fibers, length >5 µm, aspect ratio >=3:1 nuisance dust)

Strontium Nitrate Not Established Not Established Magnesium Not Established Not Established Olefinic Thermoplastic Rubber Not Established Not Established Strontium Peroxide Nuisance dust 15 mg/m<sup>3</sup> Nuisance dust 15 mg/m3 Aluminum TWA: 15 mg/m3 TWA: 1 mg/m3

Polyvinyl Chloride 5mg/ml for the respirable portion and 15mg/ml' fortotal dust. 5 and 10mg/ml, respectively Black Powder Not Established Not Established TWA 10 mg/m<sup>3</sup> Not Established Iron

Copper 0.1 mg/m3 (fume) 1 mg/m3 (dusts and mists) 0.2 mg/m3 (fume), 1 mg/m3 (dusts and mists)

Exposure controls

**Engineering Controls** Use product outdoors only! When cleaning up contents, use local and/or general exhaust.

Personal Protective Equipment

Eye / Face Protection Turn face from launcher when firing. Wear safety glasses or goggles during use and when cleaning up

spilled contents

**Skin Protection** None under normal conditions when using product unless prolonged handling is anticipated. When cleaning

up spilled contents, wear impervious protective clothing, including gloves, boots, and a lab coat, apron or coveralls, as appropriate. Wash hands and face before eating, drinking or using tobacco products. None under normal conditions when using product. A particulate respirator (NIOSH t N95 or better filters)

Respiratory Protection may be worn during the cleanup of spilled contents.

General Hygiene Use product outdoors away from combustible products. For cleanup of spilled contents, emergency

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showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous materials. Maintain good housekeeping and safety practices. Do not let contents accumulate in storage or work areas. Clean spills up promptly.

**Physical and Chemical Properties** 

Appearance (color, physical form, shape): Grey powder

Not available pH: Melting Point: Not available Solubility: Not available Boiling Point / Range: Not applicable Freezing Point: Not applicable Not applicable **Evaporation Rate:** Not applicable Not applicable Specific Gravity Vapor Density: Not applicable Vapor Pressure: Odor: No data available Odor Threshold: No data available Flash Point: Not available No data available No data available No data available Flammability: Flammability Limits: Relative Density:

Partition Coefficient: No data available No data available Viscosity:

Auto Ignition Temperature: No data available **Decomposition Temperature:** No data available

Stability and Reactivity

Chemical Stability Stable Reactivity: No information available

Possibility of Hazardous

Hazardous polymerization will not occur

Conditions to Avoid Excessive temperatures, moisture, acids, and ignition sources.

**Incompatible Materials** Reducing Agents, Organic Materials, Finely Powdered Metals, Acids, Water, Halogens.

Reactions Hazardous Decomposition Products Strontium oxides .Carbon monoxide and dioxide.

Nitrous oxides, Magnesium hydroxides and oxides.

11. **Toxicology Information** 

Ingredient acute toxicity information

Toxicology Oral I D50 skin LD50 LC50 Polypropylene Rat: >5000 mg/kg not available not available Glass Fibers not available not available not available Strontium Nitrate Rat 2750 mg/kg Not available Not available Magnesium Rat: 230 mg/kg Not available Not available Olefinic Thermoplastic Rubber non toxic non toxic non toxic Strontium Peroxide Rat: 980 mg/kg Not available Not available Aluminum Rat: > 2,000 mg/kg Rat - 4 h - > 888 mg/l not available Polyvinyl Chloride Rat: >5000 mg/kg Not available Not available Black Powder Rat: 5000 mg/kg Not available Not available Iron Rat: 30000 mg/kg Not available Not available Rat: 5800 mg/kg Not available Not available Copper

Product toxicological information

**Acute Toxicity** Not classified – Acute Toxicity Estimate yields oral LD50 over 5000 mg/kg bw 17% unknown

Skin Irritation / Corrosion Category 2 - over 0.1% of ingredients classified as a Category 2 Serious Eye Damage / Irritation Category 1 – over 0.1% of ingredients classified as a Category 1

No information found Respiratory / Skin Sensitization No information found Germ Cell Mutagen

Category 2 - over 0.1% of ingredients classified as Category 2 carcinogens Carcinogen

Reproductive Toxicity No information found

STOT – single exposure Category 3 – respiratory over 20% of ingredients classified as a Category 3 respiratory STOT hazard

STOT - repeated exposure No information found No information found **Aspiration Hazard** 

Likely routes of exposure Skin, ingestion, inhalation Symptoms related to the physical, chemical and

toxicological characteristics

Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Ingestion of contents may cause gastrointestinal irritation with nausea, vomiting and diarrhea. Inhalation will cause irritation to the lungs and mucus membrane.

Delayed and immediate effects and chronic effects from short and long term exposure

Absorption of strontium peroxide into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. Prolonged or repeated skin contact with contents may cause dermatitis.

No information found

**Ecological Information** 

Interactive effects

Ingredient toxicity / persistence / degradability / bioaccumulation / mobility in soil and water

**Aquatic Toxicity** Strontium Nitrate: Acute toxicity - Fishes, Carassius auratus, LC100, 9,615 mg/l; Chronic toxicity - Fishes, Gasterosteus

aculeatus, LC100, 2,912 mg/l

Magnesium: LC50 1355 mg/l fish

Persistence / Degradability Bioaccumulation / Accumulation

No information found No information found

Mobility in Environmental Media

Strontium Nitrate: Water:: considerable solubility and mobility; Soil/sediments non-significant adsorption

Other adverse effects No information found

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#### 13. Disposal Considerations (for spills and leakage)

Dispose of contaminated product and materials used in cleaning up spills or leaks in the manner approved for pyrotechnic material. Consult appropriate federal, state, and local regulatory agencies to ascertain proper disposal procedures. Open burning is preferred method of disposal for pyrotechnic materials..

| <b>14.</b> | <b>Transportation Information</b> |
|------------|-----------------------------------|
|            |                                   |

**Domestic** 

**ID Number** shipping name hazard class packing group **EX Number** Reportable Quantities UN0403 Flares, Aerial 1.4G n/a EX2004110275 none & International

Marine Pollutant: no Special precautions for user: No information available

| 15. Regulatory Information       |         |        |     |     |             |                      |  |         |      |            |            |
|----------------------------------|---------|--------|-----|-----|-------------|----------------------|--|---------|------|------------|------------|
| US Regulations                   | TSCA    | CERCLA | CWA | CAA | SARA<br>313 | SARA<br>302          | Acute  | Chronic | Fire | Reactivity | Pressure   |
| Polypropylene                    | yes     | no     | no  | no  | no          | no                   | no   | no      | no   | no         | no         |
| Glass Fibers                     | yes     | no     | no  | no  | no          | no                   | yes  | yes     | no   | no         | no         |
| Strontium Nitrate                | yes     | no     | no  | no  | yes         | no                   | yes  | no      | no   | yes        | no         |
| Magnesium                        | yes     | no     | no  | no  | no          | no                   | no   | no      | yes  | yes        | no         |
| Olefinic Thermoplastic<br>Rubber | yes     | no     | no  | no  | no          | no                   | no   | no      | no   | no         | no         |
| Strontium Peroxide               | yes     | no     | no  | no  | no          | no                   | yes  | no      | yes  | yes        | no         |
| Aluminum                         | yes     | no     | no  | no  | yes         | no                   | no   | no      | no   | no         | no         |
| Polyvinyl Chloride               | yes     | no     | no  | no  | no          | no                   | yes  | no      | no   | no         | no         |
| Black Powder                     | yes     | no     | no  | no  | no          | no                   | yes  | yes     | yes  | yes        | yes        |
| Iron                             | yes     | no     | no  | no  | no          | no                   | no   | no      | yes  | no         | no         |
| Copper                           | yes     | yes    | yes | no  | yes         | no                   | yes  | no      | yes  | no         | no         |
| US States                        | Prop 65 | NJ     | PA  | (   | Canada      | WI                   | HMIS   | DSL     | Eu   | rope       | wgk        |
| Polypropylene                    | no      | yes    | yes |     |             | Not c                | ontrolled  | yes     |      |            | not listed |
| Glass Fibers                     | yes     | yes    | yes |     |             | toxic                | 02A – Very<br>material<br>ng materials                     | yes     |      |            | not listed |
| Strontium Nitrate                | no      | yes    | no  |     |             | D1B Tox<br>D2B Tox   | ic materials<br>ic materials<br>leactive                   | yes     |      |            | 2          |
| Magnesium                        | no      | yes    | yes |     |             | B4 Flamm<br>Dangerou | le material;<br>nable solid; F<br>usly reactive<br>aterial | yes     |      |            | nwg        |
| Olefinic Thermoplastic Rubber    | no      | no     | no  |     |             | No inform            | nation found   | unknown |      |            | not listed |
| Strontium Peroxide               | no      | yes    | no  |     |             | C oxidizi            | ng material  | yes     |      |            | not listed |
| Aluminum                         | no      | yes    | yes |     |             | Not c                | ontrolled  | yes     |      |            | nwg        |
| Polyvinyl Chloride               | no      | yes    | no  |     |             |                      | ontrolled<br>Material                                      | yes     |      |            | not listed |
| Black Powder                     | yes     | yes    | no  |     |             |                      | other toxic<br>fects                                       | yes     |      |            | nwg        |
| Iron                             | no      | yes    | yes |     |             | B4 flami             | mable solid  | yes     |      |            | nwg        |
| Copper                           | no      | yes    | yes |     |             | B4 Flam<br>D2B Tox   | mable solid<br>ic materials                                | yes     |      |            | nwg        |

#### Other Information 16.

| Revision | Information: | June 2015 |
|----------|--------------|-----------|
|----------|--------------|-----------|

| NFPA Rating  |   | HMIS Rating     |   |  |  |
|--------------|---|-----------------|---|--|--|
| Flammability | 2 | Flammability    | 1 |  |  |
| Health       | 2 | Health          | 3 |  |  |
| Reactivity   | 1 | Physical Hazard | 1 |  |  |

## Key / Legend:

HMIS: hazardous material identification system NFPA: national fire protection association CAS: Chemical Abstracts Service number EINECS: European inventory of existing chemical substances OSHA PEL: occupational safety and health administration permissible exposure limit NIOSH TLV: national institute of occupational safety and health Threshold Limit Value NTP: National Toxicology Program IARC: International Agency for Research on Cancer

TSCA: toxic substance control act - US CERCLA: comprehensive environmental response, compensation and liability act – US CWA: clean water act - US CAA: clean air act - US SARA: superfund amendments and reauthorization act – US PROP 65:California's Proposition 65 list WHMIS: workplace hazardous materials

information system - Canada
DSL: Domestic Substances List - Canada WGK: water hazard classes - Germany

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