

SAFETY DATA SHEET

Effective Date: JULY 2019

ITEM: Coastal Alerter Kit

PART # 572 **UPC** 077403105724

CONTENTS 12 Ga HP 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 signal Use Advised Against: Do not use indoors or inside of a vehicle.

Manufacturer's Information: Orion Safety Products

3157 N 500 W	EMERGENCY	CHEMTREC
Peru, Indiana 46970 US 1-800-851-5260	RESPONSE	1-800-424-9300 1-703-527-3887
Int'l (11) 1-765-472-4375		

2. Hazards Identification

GHS Classifications	Explosive Skin Irritation Eye Irritation Carcinogenicity STOT-Single Exposure	Category 1.4 Category 2 Category 1 Category 2 Category 3
	STOT-Single Exposule	Calegory 5

GHS Label Elements

H204 Fire or projection haz	ard
H315 Causes skin irritation	
H318 Causes serious eye of	lamage
H351 Suspected of causing	cancer
1335 May cause respirator	y irritation



Signal Word Danger

Precautionary Statements

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P102	Keep out of reach of children.	P301/315	IF SWALLOWED: Get immediate medical advice /attention.
P103	Read carefully and follow all instructions.	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
PZIU	No smoking		comfortable for breathing. If experiencing respiratory symptoms: Call a
P232	Protect from moisture		POISON CENTER or doctor/physician.
P261	Avoid breathing dust/fumes.	P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P264	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.	P370	In case of fire: use water deluge
P280	Wear protective eye protection.		

Hazards Not Otherwise Classified (HNOC): none

3. Composition / Information on Ingredients

Component	CAS #	EINCS #	Percentage
High Density Polyethylene	9002-88-4	Polymer	<60%
Talc	14807-96-6	238-877-9	<20%
Strontium Nitrate	10042-76-9	233-131-9	<20%
Magnesium	7439-95-4	231-104-6	<20%
Strontium Peroxide	1314-18-7	215-224-6	<10%
Aluminum	7429-90-5	231-072-3	<5%
Polyvinyl Chloride	9002-86-2	None	<5%
Dextrin	9004-53-9	232-675-4	<1%
Potassium Nitrate	7757-79-1	231-818-8	<4%
Charcoal	16291-96-6	240-383-3	<1%
Sulfur	7704-34-9	231-722-6	<2%
Iron	1309-37-1	231-096-4	<5%
Copper	7440-50-8	231-159-6	<3%

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



4. 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.

- Skin If contents are contacted, wash with area with soap and water for 15 minutes. Remove contaminated clothing and wash before reuse. Get medical aid if irritation occurs.
- Eyes If contents get into eyes, 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.

See section 2 labeling and section 11

No data available

Ingestion Get medical aid immediately.

Most important symptoms and effects both acute and delayed

Indication of any immediate medical attention and special treatment needed

5. Firefighting Measures

Extinguishing Media	Water deluge	Unsuitable Extinguishing Media	Foam and dry chemical extinguishers and suffocation are ineffective.	
Protective Equipment and Precautions for Firefighters	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated 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 quantity 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 smoke or contents. Avoid contact with skin and eyes. Wear flame retardant clothing with long sleeves, dust mask, rubber or nitrile gloves, safety goggles, safety shoes when cleaning up contents. 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 barriers.

Methods for Containment and Clean-up

Use caution when cleaning up spilled 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 of 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 smoke and inhalation of contents. Wash thoroughly after handling. Avoid contact with heat sparks, and flame. Do no disassemble signals.

Conditions for Safe Storage, Including Any Incompatibilities

Store in a dry place away from 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
High Density Polyethylene	5mg/ml for respirable portion and 15mg/ml' for total dust	3mg/ml for respirable portion and 10mg/ml' for total dust
Talc	2.0 mg/m ³	2.0 mg/m ³
Strontium Nitrate	Not Established	Not Established
Magnesium	Not Established	Not Established
Strontium Peroxide	Nuisance dust 15mg/m ³	Nuisance dust 15mg/m ³
Aluminum	TWA: 15 mg/m ³	TWA: 1 mg/m ³
Polyvinyl Chloride	5mg/ml for respirable portion and 15mg/ml' for total dust	5 and 10 mg/ml, respectively
Dextrin	15 mg/m ³	15 mg/m ³
Charcoal	3.5 mg/m ³	3 mg/m³
Sulfur	20 ppm	Not Established
Potassium Nitrate	15 mg/m ³	10 mg/m ³
Iron	TWA: 10 mg/m ³	Not Established
Copper	0.1 mg/m ³ (fume) 1 mg/m ³ (dusts and mists)	0.2 mg/m ³ (fume), 1 mg/m ³ (dusts and mists)



Exposure Controls Engineering Controls Personal Protective Equipment Eye / Face Protection Skin Protection

Respiratory Protection

General Hygiene

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

Turn face from launcher when firing. Wear safety glasses or goggles during use and when cleaning up spilled contents. 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 N195 or better filters) may be worn during the cleanup of spilled contents.

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

9. Physical and Chemical Properties

Appearance (color, physica	al form, shape):	Grey powder			
pH:	No data available	Melting Point:	No data available	Solubility:	No data available
Boiling Point / Range:	Not applicable	Freezing Point:	Not applicable	Evaporation Rate:	Not applicable
Vapor Pressure:	Not applicable	Specific Gravity:	Not applicable	Vapor Density:	Not applicable
Odor:	No data available	Odor Threshold:	No data available	Flash Point:	No data available
Flammability:	No data available	Flammability Limits:	No data available	Relative Density:	No data available
Partition Coefficient:	No data available	Viscosity:	No data available		
Auto Ignition Temperature:	No data available			Decomposition Temperature:	No data available

10. Stability and Reactivity

Chemical Stability: Stable	Reactivity: No information available	Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to Avoid Excessive temperatures, moisture, acids, and ignition sources	Reducing Agents, Organic Mat Acids, Wate	le Materials erials, Finely Powdered Metals, r, Halogens	Hazardous Decomposition Products Strontium Oxides, Carbon Monoxide and Dioxide, Nitrous Oxides, Magnesium Hydroxides and Oxides.

11. Toxicology Information

Ingredient acute toxicity in				
Toxicology	Oral LD50		Skin LD50	LC50
High Density Polyethylene		4000mg/kg	not available	12,000 mg/m ³ /30min
Talc	1	not available	not available	not available
Strontium Nitrate	R	at 2750 mg/kg	not available	not available
Magnesium	R	at 230 mg/kg	not available	not available
Strontium Peroxide	R	at 980 mg/kg	not available	not available
Aluminum		t: >2000 mg/kg	Rat – 4h - >888 mg/l	not available
Polyvinyl Chloride		t: >5000 mg/kg	not available	not available
Dextrin	-	None Known	Not Sensitizing	None Known
Potassium Nitrate		at 3015 mg/kg	not available	not available
Charcoal		it 10000 mg/kg	Rabbit >3000 mg/kg	not available
Sulfur		at 175 mg/kg	Rabbit >2000 mg/kg	Rat 9.23 mg/l/4hr
Iron		t: 30000 mg/kg	not available	not available
Copper		at: 5800 mg/kg	not available	not available
Product toxicological info	ormation			
	Acute Toxicity	Not classified - Acute	Toxicity Estimate yields oral LD₅₀ o	ver 5000 mg/kg bw 17% unknown
• • • • • • • • • • • • • • • • • • • •	itation / Corrosion		6 of ingredients classified as a Cate	
	Damage / Irritation	0,	of ingredients classified as a Cate	gory 1 eye irritant
1 5	Skin Sensitization	No information found		
G	Germ Cell Mutagen	No information found		
_	Carcinogen		6 of ingredients classified as a Cate	egory 2 carcinogens
	roductive Toxicity	No information found		
	-single exposure		y over 20% of ingredients classifie	ed as a Category 3 respiratory STOT hazard
	repeated exposure	No information found		
	Aspiration Hazard	No information found		
	outes of exposure	Skin, ingestion, inhalati		delawing application and itabian and
	ted to the physical,		Il cause watering and redness. Red	
chemicaland toxicolog	Ical characteristics			may cause gastrointestinal irritation with
				tion to the lungs and mucus membrane. ne formation of methemoglobin which in
Delayed and immediate e	effects and chronic		n causes cyanosis. Onset may be	
effects from short and lo	ong term exposure		skin contact with contents may ca	,
	Interactive effects	No information found	Skin contact with contents may ca	
	interactive effects	No information found		



12. Ecological Information

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

y - Fishes,
sorption

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.

14. Transportation Information

	ID Number	Proper Shipping Name	Hazard Class	Packing Group	EX Number	Reportable Quantities			
Domestic & International	UN0403	Flares, aerial	1.4G	n/a	EX2004110275	none			
Marine pollutant: no	D	Special precautions for user: no information available							

15. Regulatory Information

US Regulations	TSCA	CERCLA	CWA	CAA	SARA 313	SARA 302	Acute	Chronic	Fire	Reactivity	Pressure
HD Polyethylene	yes	no	no	no	no	no	no	no	no	no	no
Talc	yes	no	no	no	no	no	no	no	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
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
Dextrin	yes	no	no	no	no	no	no	no	no	no	no
Potassium Nitrate	Yes	no	no	no	yes	no	no	no	yes	no	no
Charcoal	yes	no	no	no	no	no	yes	yes	yes	no	no
Sulfur	yes	no	no	no	no	no	yes	yes	yes	no	no
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	WHMIS	DSL	Europe	wgk
HD Polyethylene	no	yes	yes		Not Controlled	yes		not listed
Talc	yes	yes	yes	yes	Class D2A – Very toxic material C Oxidizing materials	yes		not listed
Strontium Nitrate	no	yes	no		D1B Toxic materials D2B Toxic materials	yes		2
Magnesium	no	yes	yes		B6 Reactive flammable material; B4 Flammable solid; F Dangerously reactive material	yes		nwg
Strontium Peroxide	no	yes	no		C oxidizing material	yes		not listed
Aluminum	no	yes	yes		Not controlled	yes		nwg
Polyvinyl Chloride	no	yes	no		Not controlled	yes		not listed
Dextrin	no	no	no		Not controlled			
Potassium Nitrate	no	no	no	yes	No information found	yes		nwg
Charcoal	yes	yes	yes		No information found	yes		nwg
Sulfur		yes	yes	yes	No information found	yes		nwg
Iron	no	yes	yes		B4 flammable solid	yes		nwg
Copper	no	yes	yes		B4 Flammable solid D2B Toxic materials	yes		nwg



16. Other Information

Revision Information: July 2019				Key / Legend				
NFPA Rating HMIS Rating			HMIS: hazardous material identification system NFPA: national fire protection association CAS: Chemical Abstracts Service number	TSCA: toxic substance control act - US CERCLA: comprehensive environmental response compensation and liability act – US				
Flammability Health Reactivity	2 2 1	Flammability Health Physical Hazard	1 3 1	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 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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Legal Statement

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