

SECTION I - IDENTIFICATION

PRODUCT NAME & SYNONYMS: SAR RED AERIAL SIGNAL	
CHEMICAL FAMILY: Not Applicable	FORMULA: Mixture
TRADE NAME: Skyblazer XLT or XLT Twin	
DESCRIPTION: A dark gray powder consolidated into an aluminum cup	CAS NO.: Not Applicable

SECTION II - NORMAL HANDLING PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: (KEEP OUT OF REACH OF CHILDREN) Store in a cool area out of direct sunlight. Do not allow long-term exposure to temperatures in excess of 180°F. Avoid long-term immersion in water, exposure to moisture, open flames or extremely high temperature. Do not disassemble signal. Remove bottom cap only if out-of-doors and preparing to activate signal. Do not attempt to ignite or burn this product inside a building or vehicle.	
PROTECTIVE EQUIPMENT	VENTILATION REQUIREMENTS
EYES: Goggles when handling broken containers. GLOVES: None required. OTHER: None required.	Outdoor use only

SECTION III - HAZARDOUS INGREDIENTS

BASIC MATERIALS	OSHA PEL	LD 50	LC 50	SIGNIFICANT EFFECTS
Magnesium CAS# 7439-95-4	15 mg/m ³	230 mg/Kg (rat)	No Data	Heart beat alteration. Inflammation and local lesions on skin.
Strontium Nitrate CAS# 10042-76-9	None Est.	2750 mg/Kg (rat)	No Data	Irritant to skin, eyes & mucous membranes
Polyvinyl Chloride CAS# 9002-86-2	1 ppm	Not Known	No Data	May contain vinyl chloride, a suspected carcinogen.
Dextrin CAS# 9004-53-9	5 mg/m ³	None Est.	None Est.	Possible eye & mucous membrane irritant.
Black Powder	None Est.	None Est.	None Est.	Explosive . Dust may be irritant.
Strontium Peroxide CAS#1314-18-7	None Est.	None Est.	None Est.	Irritating to skin, eyes, lungs and mucus membranes
Ignitor Cup (Potassium Chlorate, Charcoal, Copper)	None Est.	None Est.	None Est.	May cause eye and mucus irritation (pot. chl)
Loaded Friction Wire (phosphorus)	None Est.	None Est.	None Est.	Irritating to eyes and skin on contact (phos)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

AUTOIGNITION OF CONTENTS: >180°F	OSHA CLASSIFICATION: 1.4G, Explosive	FLAMMABLE EXPLOSIVE LIMITS	LOWER: Not Known	UPPER: Not Known
EXTINGUISHING MEDIA: Water deluge. Suffocation techniques may be ineffective as oxidizers are included in the mixture.				
SPECIAL FIRE HAZARD & FIRE FIGHTING PROCEDURES: Avoid the use of water (other than deluge) on large quantities due to magnesium metal content. Flaming projectiles may be ejected during a fire. Use NIOSH/MSHA approved self-contained breathing apparatus when signals are involved in a fire.				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: None established.
SYMPTOMS OF OVER EXPOSURE: Contents of star can cause skin, eye and mucous membrane irritation; dermatitis.
SKIN: If exposed to contents, flush thoroughly with water.
EYES: If exposed to contents, flush with water for 15 minutes, call a physician.
INGESTION: Call a physician immediately
INHALATION: Do not inhale smoke if signals are involved in a fire situation. If star contents are inhaled, move victim to fresh air. Call a physician.

SECTION VI - TOXICOLOGY (Contents of Signal)

ACUTE ORAL LD 50:	No available data.	CARCINOGENICITY:	Not known to be carcinogenic.
ACUTE DERMAL LD 50:	No available data.	MUTAGENICITY:	Not known to be mutagenic.
ACUTE INHALATION LC 50:	No available data.		
PRINCIPAL ROUTES OF ABSORPTION:	Inhalation or ingestion of contents. Inhalation of smoke. Exposure to smoke during use may aggravate asthma if inhaled.		
EFFECTS OF ACUTE EXPOSURE:	Contents can cause skin, eye and mucous membrane irritation; dermatitis.		
EFFECTS OF CHRONIC EXPOSURE:	Contents as a dust may cause dermatitis. Exposure to dust can irritate respiratory tract		

SECTION VII - SPILL AND LEAKAGE PROCEDURES (Control Procedures)

ACTION FOR MATERIAL RELEASE OR SPILL:

Remove all sources of ignition. Wear NIOSH/MSHA approved dust respirator if there are dusty conditions. (Follow OSHA regulations for respirator use. See 29 CFR 1910.134.) Use non-sparking utensils to sweep or shovel up and place in an approved DOT container. Do not return material to original container. Isolate and DO NOT SEAL. Wash all contaminated clothing before re-use. In the event of a large spill, call the emergency telephone number listed below.

TRANSPORTATION EMERGENCY, CONTACT CHEMTREC 1-800-424-9300

WASTE DISPOSAL METHOD:

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. Signal should be allowed to burn to completion. Partially burned, unburned signals, and ash from burned signals should be disposed of in accordance with federal, state, and local requirements. Refer to 40 CFR 261.20 -.24 to determine at the time of disposal whether the product should be classified as a hazardous waste. Do not store partially burned signals in a vehicle, closed container, warehouse, or any other building

SECTION VIII - SHIPPING DATA

DOT CLASS: XLT Model: Flares, aerial, 1.4G, UN0403, Packing Group II, Label required 1.4G, EX-2002110107
TWIN XLT Model: Flares, aerial, 1.4G, UN0403, Packing Group II, Label required 1.4G, EX-2002110148

SECTION IX - REACTIVITY DATA

STABILITY: stable **HAZARDOUS POLYMERIZATION:** will not occur

CONDITIONS TO AVOID:

Exposure of the signal to temperatures in excess of 180°F may cause weakening of the signal body. Avoid open flames, extremely high temperatures and wet conditions.

INCOMPATIBILITY (Material to avoid):

Avoid exposure to organic solvents which might weaken the signal body.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, Nitrous oxides, Carbon dioxide. Magnesium hydroxides and oxides

SECTION X - PHYSICAL DATA

MELTING POINT	>500°F	VAPOR PRESSURE	No Data	VOLATILES	No Data
BOILING POINT	Not Applicable	SOLUBILITY IN WATER	Slight	EVAPORATION RATE	Solid
SPECIFIC GRAVITY (H₂O=1)	No Data	VAPOR DENSITY (Air=1)	Not Applicable	pH	Not Applicable

INFORMATION FURNISHED BY:

DATE: **September 2008**

ORION SAFETY PRODUCTS
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