

SECTION I - IDENTIFICATION

PRODUCT NAME & SYNONYMS: Orion Skyblazer XLT and XLT, Twin	
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. Do not disassemble signal. Remove bottom cap only if out-of-doors and preparing to activate signal. Flares should be allowed to burn to completion. Unburned and partially burned flares contain potassium perchlorate which should not be allowed to come into contact with surface and ground water. 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 a suspected carcinogen.
Dextrin CAS# 9004-53-9	5 mg/m ³	None Est.	None Est.	Possible eye & mucous membrane irritant.
Potassium Perchlorate CAS# 7778-7	None Est.	None Est.	None Est.	Irritant to skin, eyes & mucous membranes. Absorption can cause Methemoglobinemia and kidney injury. Ingestion may cause gastroenteritis. Reactive oxidizer-keep away from fuels.
Black Powder	None Est.	None Est.	None Est.	Explosive if loose. Dust may be irritant.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Auto Ignition 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. Collect water/sand for approved disposal. Keep from entering surface or ground water.				
SPECIAL FIRE HAZARD & FIRE FIGHTING PROCEDURES: 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: If star contents are inhaled, move victim to fresh air. Call a physician.

SECTION VI - TOXICOLOGY (Contents of Signal)

Orion Skyblazer XLT and XLT, Twin

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.	IRRITANT:	Eye and skin
PRINCIPAL ROUTES OF ABSORPTION:	Inhalation or ingestion of contents.		
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. Ingestion of potassium perchlorate may disrupt the proper functioning of the thyroid gland. Additional information may be obtained from the National Academy of Sciences concerning the effects of potassium perchlorate on humans.		

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. Refer to California Code of Regulations, Title 33, Sections 67384.1-67384.10 for additional information on handling and disposal of potassium perchlorate containing materials.

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

STABLE: X	UNSTABLE:	AT _____°C _____°F	HAZARDOUS POLYMERIZATION	MAY OCCUR: WILL NOT OCCUR: X
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CONDITIONS TO AVOID:

Exposure of the signal to temperatures in excess of 180°F may cause weakening of the signal body.

INCOMPATIBILITY (Material to avoid):

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

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, Nitrous oxides, Carbon dioxide.

SECTION X - PHYSICAL DATA

MELTING POINT	Not Applicable	VAPOR PRESSURE	No Data	VOLATILES	No Data
BOILING POINT	Not Applicable	SOLUBILITY IN WATER	No Data	EVAPORATION RATE	No Data
SPECIFIC GRAVITY (H ₂ O=1)	No Data	pH	Not Applicable	VAPOR DENSITY (Air=1)	Not Applicable

INFORMATION FURNISHED BY: **ORION SAFETY PRODUCTS** **DATE:** August 2006
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