STANDARD FUSEE CORP./ORION SAFETY PRODUCTS MATERIAL SAFETY DATA

NSN#: 1370-01-009-259

EMERGENCY CONTAC1 CHEMTREC 1-800-424-930

- RAILWAY & HIGHWAY FUSEES

- ORION MARINE SIGNAL PRODUCTS (FORMERLY OLIN SIGNAL PRODUCTS)

SECTION I - IDENTIFICATION							
CHEMICAL NAMES & SYNONYMS: FUSEE							
CHEMICAL FAMILY: PYROTECHNIC DEVICE	FORMULA: MIXTURE	TRADE NAME: FUSEE/FLARE					
DESCRIPTION: RED CARDBOARD TUBE CONTAINING YELLOWISH-TAN SOLID MIXTURE.		CAS NO.: NONE ASSIGNED/MIXTURE					

SECTION II - HAZARDOUS INGREDIENTS								
BASIC MATERIAL	OSHA P.E.L	LD 50	LC 50	SIGNIFICANT EFFECTS				
STRONTIUM NITRATE C.A.S.# 10042769	NONE EST.	2750 mg/Kg (RAT)	NO DATA	IRRITANT TO SKIN, EYES AND MUCOUS MEMBRANES.				
POTASSIUM PERCHLORATE C.A.S.# 7778747	NONE EST.	NO DATA	NO DATA	IRRITANT TO SKIN, EYES AND MUCOUS MEMBRANES.				
SULFUR C.A.S.# 7704349	NONE EST.	NO DATA	NO DATA	MAY CAUSE EYE AND MUCOUS MEMBRANE IRRITATION.				
SAWDUST/OIL BINDER C.A.S.# MIXTURE	NONE EST.	NO DATA	NO DATA	N/A				

SECTION III - NORMAL HANDLING PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP ITEMS OUT OF THE REACH OF CHILDREN!

CONTENTS MAY BE HARMFUL IF SWALLOWED. IF TUBE IS BROKEN, DO NOT GET CONTENTS IN EYES, ON SKIN OR ON CLOTHING. UPON CONTACT WITH SKIN OR EYES, WASH WITH WATER. AVOID BREATHING DUST. STORE IN A COOL, DRY, WELL-VENTILATED PLACE AWAY FROM ALL SOURCES OF IGNITION. EXERCISE CAUTION WHEN USING THIS PRODUCT SINCE MOLTEN FLECKS MAY BE EMITTED. DO NOT USE PRODUCT NEAR ANY FLAMMABLE OR COMBUSTIBLE MATERIALS. AVOID CONTACT WITH STRONG OXIDIZERS. AVOID OPEN FLAMES AND TEMPERATURES >167°F.

PROTECTIVE EQUIPMENT	VENTILATION REQUIREMENTS
FOLLOW DIRECTIONS ON PACKAGE. ALWAYS POINT FUSEE AWAY FROM FACE AND BODY WHILE IGNITING AND AFTERWARDS.	THIS PRODUCT SHOULD ONLY BE USED OUTDOORS.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT/METHOD: N/A CONTENTS: >167°F (OVEN)

OSHA CLASSIFICATION: FLAMMABLE SOLID FLAMMABLE EXPLOSIVE LIMITS:

UPPER: NONE ESTAB. LOWER: NONE ESTAB

EXTINGUISHING MEDIA: USE WATER DELUGE/FLOODING METHODS:

SUFFOCATION TECHNIQUES WILL NOT BE EFFECTIVE: NO THREAT OF MASS EXPLOSION

SPECIAL FIRE HAZARD & FIRE FIGHTING PROCEDURES: USE NIOSH/MSHA APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS WHEN ANY MATERIAL IS INVOLVED IN FIRE

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: NONE ESTABLISHED FOR THE MIXTURE.

SYMPTOMS OF OVER EXPOSURE: TUBE CONTENTS ARE CORROSIVE TO THE EYES AND IRRITATING TO THE RESPIRATORY TRACT AND SKIN.

SKIN: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES, CALL A PHYSICIAN IF IRRITATION OCCURS.

EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES, CALL A PHYSICIAN.

INGESTION: IF CONTENTS ARE INGESTED: IMMEDIATELY GIVE LARGE QUANTITIES OF WATER OR EPSOM SALT SOLUTION. INDUCE VOMITING AND CALL A PHYSICIAN.

INHALATION: IMMEDIATELY REMOVE VICTIM TO FRESH AIR. CALL A PHYSICIAN.

CHEMICAL NAME: FUSEE

ACUTE ORAL LD 50:		RDBOARD TUBE - NONE IS EXPOSED				
APPROXIMATELY 3	GRAMS/kg (RAT)	MUTAGENICITY:	NOT KNOV			
ACUTE DERMAL LD 50:		EYE IRRITATION:	NOT KNOWN	TO BE MUTAGE	ENIC	
APPROX. 2 GRAM	CORROSIVE					
ACUTE INHALATION LD 50: NOT ESTABLIS	SHED	PRIMARY SKIN EFFECT: IRRITANT				
PRINCIPLE ROUTES OF ABSORPTION: INH	ALATION; DERMAL (CONTENT				
EFFECTS OF ACUTE EXPOSURE: TUBE CC AND SKIN. INHALATION OF COMBUST EFFECTS OF CHRONIC EXPOSURE:	NTENTS ARE CORR					
NONE	KNOWN OR REPOR					
SECTION VII - ACTION FOR MATERIAL RELEASE OR SPIL	SPILL AND LEAKAGE					
NIOSH/MSHA approved dust respirator, g respirator use (See 29 C.F.R. 1910.134). utensils. Minimize contamination with org fresh container, isolate and DO NOT SEA emergency number listed below. If spill ar water sources and sewers. TRANSPOR WASTE DISPOSAL METHOD: Dispace of ac	Shovel or sweep up a anic material. Do not L. Wash all contamin ea is washed with wat	ind place in an app return material to lated clothing befor er, collect wash wa ENCY, CALL C	proved DOT cor original container re reuse. In the ater for approve CHEMTREC	ntainer using nor er. Place swept e event of a larg d disposal. Kee 1-800-424-93	n-sparking material into je spill, call the p from entering 00	
approved for this material. Consult appro procedures. Open burning is the preferre federal, state and local regulations. Fuse should be disposed of in accordance with at the time of disposal whether the produc vehicle, closed container, warehouse or a	d method of disposal es should be allowed f federal, state, and loo t should be classified	for pyrotechnic ma to burn to completi cal requirements.	terials but must on. Partially bu Refer to 40 C.F	be done in con irned and unbur .R. 261.2024	npliance with ned flares I to determine	
	SECTION VIII -	SHIPPING DATA				
D.O.T. CLASS (DOMESTIC): FUSEE, 4.1,	NA1325, PG II (GROU	JND ONLY) L	ABEL REQ: F	LAMMABLE SC	DLID	
INTERNATIONAL CLASS & DOMESTIC AIR:	SIGNAL DEVICES, I	HAND, 1.4S, UN03	73, PG II I	ABEL REQ: 1.	4S	
		EACTIVITY DATA				
STABLE X UNSTABLE @°C	°F	HAZARDOU		MAY OCCUR		
<u> </u>		POLYMERIZATION		WILL NOT OCCUR X		
DO NOT EXPOSE TO TEMPERATURES ABOVE 160°F, IGNITION SOURCES OF ANY KIND						
	STRONG OXIDIZERS;	STRONG ACIDS;	CHLORATE SA	ALTS, GASOLIN	IE OR OTHER	
FUELS. HAZARDOUS DECOMPOSITION PRODUCTS	SULFUR OXIDES, N	IITROGEN OXIDE	S, CARBON DI	OXIDE / CARBO	ON MONOXIDE.	
		HYSICAL DATA				
MELTING POINT: NO DATA	VAPOR PRESSURE: N	-		NO DATA DN RATE: NO DA	ТА	
SPECIFIC GRAVITY (H ₂ O = 1): NO DATA	SOLUBILITY IN WATER: pH NO DATA			SITY (AIR = 1): NC		
INFORMATION FURNISHED BY:	JEFFREY W. J	OHNSON		DATE:	JANUARY 200	
	P.O.	BOX 1047 N, MD 21601 Y PRODUCTS 1-80	0-637-7807	PRODUC	τs	

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