

SAFETY DATA SHEET

Red Emer	gency Flar	e - No Perchle Formulatio			i cation: e NPC flare w	Il have the following symbol or	n it:			
Synonyms:	nonyms: Emergency Road Flare Railway Flare NSN#: 1370-01-009-2593				Improved Eco-Friendly Formula					
dentified Use	Emergency	signal		Use Advise	d Against:	Do not use indoors or inside	a vehicle			
2832 East 800-		28320 St. Mich			RGENCY	CHEMTREC 1-800-424-9300				
2. Haza	rds Identifi	cation								
GHS Classific Skin Irritation Eye Irritation STOT - Single Exp GHS Label Ele	oosure	Category 2 Category 2A Category 3	H315 H319 H335							
Pictograms	<u>(</u>)			Hazard Statem H315 /319 H335		serious eye irritation ratory irritation				
Signal Word	Warning									
P261 Av P264 Wa P270 Do P271 Us P280 Wa P370 In P501 Dis loc loc	ep out of reach of ch oid breathing dust/sn ash hands thoroughly not eat, drink or smo e only outdoors or in ear protective eye pro case of fire: use wate spose of contents / co al and national regula	noke. r after handling. oke when using this pr a well-ventilated area otection er deluge ontainer in accordance	ı. e with	P301/315 P302/352 P304/340/342 P305/338/351 P333/313 Dt flame	IF ON SKIN: Wa IF INHALED: R comfortable for POISON CENT IF IN EYES: Ri contact lenses,	D: Get immediate medical advice /attensish with plenty of soap and water. emove victim to fresh air and keep at breathing If experiencing respiratory services ER or doctor / physician. hese cautiously with water for several n if present and easy to do. Continue rin or rash occurs, get medical advice / at	rest in a positior symptoms: Call ninutes. Remove nsing.			
3. Com	osition / In	formation or	n Ingred	lients						
Co Strontium Nitrate Sulfur Potassium Nitrate Paraffinic Oil Potassium Chlora Vaxy sawdust Volyvinyl Chloride Shellac Charcoal Iote: Due to Conf	mponent le idential Business Info	C# 1004 770- 6474 3811 mit 9002 mit 1333 prmation i. e "Trade So	AS # 2-76-9 4-34-9 7-79-1 2-54-7 1-04-9 xture 2-86-2 xture 3-86-4	EI 23 23 23 23 23 23 20 20 23	NCS # 3-131-9 1-722-6 1-818-8 2-384-2 1-100-4 none 0-831-0 none 1-153-3 f each ingredient	%age <75%	ion will be share			
11 1	uthorities if circumsta									
	first aid measures	s ents are inhaled, rem	ove to fresh a	air. Watch for sign	s of allergic react	on. If other symptoms develop, get m	edical aid			
Skin	If cont	diately. ents are contacted, w . Get medical aid imm				s. Remove contaminated clothing and	l wash before			
Eyes						casionally lifting the upper and lower l	ids. Remove			



Indication of any immediate medical attention and special treatment needed

See section 2 labeling and section 11 Burning flare can cause severe burns if in contact with body. For burns to skin, cool with water and bandage appropriately. Seek medical attention. If eye is burned, cover eye and get medical aid immediately

		Incurcal dia I	innediately			
5. Firefig	ghting Meas	ures				
Extingu	uishing Media	Water deluge Unsuitable Extinguishing Medi	a Foam and dry chemical extinguishers and suffocation are ineffective.			
Protective Ec Precautions fo	or Firefighters	Wear full protective clothing and NIOSH-approved self-contained br in the pressure demand or other positive pressure mode. Prevent fu nearby product with water. Combat fire from a sheltered position.	eathing apparatus with full face piece operated			
		Use copious amounts of water to extinguish fire comprised of flares. burn unless a significant amount of water is used. Do not breathe sr				
	erimonnation	No data available				
6. Accid	lental Releas	se Measures				
Do not breathe conte goggles, safety shoes Environmental Pr Prevent dispersion of barriers. Methods for Cont Use caution when cle	nts and avoid contact s. Avoid friction on the ecautions f contents on soil and i ainment and Clear eaning up spilled produ	 Aquipment / Emergency Procedures with skin and eyes. Wear flame retardant clothing with long sleeves e released product. Keep away from ignition sources. in water. Prevent contents from spreading or entering into drains, dit n-up uct contents. Remove heat, flames, sparks and other sources of igni grounding. Clean spills in a manner that does not disperse dust into 	ches, groundwater or rivers by using appropriate tion. Use non-sparking tools and equipment.			
	nts. Pick up spill for re	covery or disposal and place in an approved container. Wash away				
7. Handl	ing and Stor	age				
Precautions for	-	flecks may be emitted. Produces hot flame. Burning flare can of contact with clothing and other combustible materials. Wear ex- package. Use outdoors only! Do not ignite or burn product ins smoke. Do not dismantle. Do not allow contents to touch eyes may be harmful if swallowed. Wash thoroughly after handling. reuse. Avoid contact with heat, sparks, and flame.	ye protection during use. Follow instructions on ide a vehicle or building. Avoid inhalation of s, skin or clothing. Do not ingest contents as they Remove contaminated clothing and wash before			
Conditions for S Including Any Ir		Store away from direct sunlight, heat and incompatible materia beverages. Store away from flammable materials, sources of h temperature. Do not store partially burned flares in a vehicle, w are provided for moisture protection. Keep partially used bags	neat, flame and sparks. Store at ambient varehouse, or any other building. Plastic bags			
8. Expos	ure Controls	s / Personal Protection				
Control paramet	ters					
Strontium Nit Sulfur Potassium Ni Paraffinic Oil Potassium Cl Waxy sawdu Polyvinyl Chl	itrate hlorate st	regulatory thresholds in this product.	ACGIH TLV Not Established Not Established Nuisance dust 15 mg/m ³ . TWA 5 mg/m ³ No Airbome Exposure Limits established Not Established nown hazardous components above regulatory thresholds in this product.			
Shellac Charcoal		Not Established Nuisance dust 15 mg/m³.	Not Established Nuisance dust 15 mg/m ³ .			
Exposure controls Engineering Controls Use product outdoors only! When cleaning up contents, use local and/or general exhaust. Personal Protective Equipment						
Ey	ve / Face Protection	Safety glasses or goggles				
P	Skin Protection	None under normal conditions when using product unless prolong clothing, including gloves, boots, and a lab coat, apron or coverall product. Wash hands and face before eating, drinking or using to None under normal conditions when using product A particulate.	ls, as appropriate, when cleaning up spilled bacco products.			
Res	piratory Protection General Hygiene	None under normal conditions when using product. A particulate r worn during the cleanup of spilled materials. Use product outdoors away from combustible products. For clean eye wash stations should be available. Educate and train employe materials.	up of spilled materials, emergency showers and			



9. Physical and Che	mical D	roportios							
Appearance (color, physical for		Yellow to grey powder							
pH: Not availa		Melting Point:	Not available	Solubility	Not available				
Boiling Point / Range: Not applic	Freezing Point:	Not applicable	Evaporation Rate:						
Vapor Pressure: Not applicable		Specific Gravity	Not applicable	Vapor Density:					
Odor: No data available		Odor Threshold:	No data available	Flash Point:					
Flammability: No data a		Flammability Limits:		No data available Relative Density :					
Partition Coefficient: No data a		Viscosity:	No data available	Relative Density.	No data available				
Auto Ignition Temperature:	360°F	viscosity.		mposition Temperature:	No data available				
.			2000						
10. Stability and Re Chemical Stability Stable	Reactivity:	No information available	Possibility o	f Hazardous Reactions	s polymerization will not occu				
Conditions to Avoid		Incompatible Mat	erials		position Products				
Combustible materials, heat, flames, spa	urks Stron		acids, strong fuels, ammonia salts, and strong Carbon monoxide, carbon die						
and other sources of ignition. Moisture		bases. Strong oxidizers; ch			en oxides.				
11. Toxicology Info		· · · · · · · · · · · · · · · · · · ·							
0/		11							
Ingredient acute toxicity inforn Ingredient	ation	Oral LD50	ekin	LD50	LC50				
Strontium Nitrate		Rat: 2750 mg/kg			No information found				
Sulfur		Rat:>2000 mg/kg			Rat: 79.23 mg/L 4hr				
Potassium Nitrate		Rat: 3750 mg/kg			No information found				
Paraffinic Oil		Rat: >2000 mg/kg			lo information found				
Potassium Chlorate		Rat: 1870 mg/kg	Rabbit: >	2000 mg/kg N	lo information found				
Waxy sawdust		Rat: > 5000 mg/kg		stated	not stated				
Polyvinyl Chloride		Rat: > 5000 mg/kg			wn hazardous components above atory thresholds in this product.				
Shellac		Rat: 10000 mg/kg			No information found				
Charcoal		Rat: 15400 mg/kg	Rabbi	t: 3 g/kg N	lo information found				
Product toxicological informat	ion								
Acute To		t classified – Acute Toxicity E	stimate yields oral LL	0₅₀ over 5000 mg/kg bw					
Skin Irritation / Corr		tegory 2 – over 10% of ingred	•						
Serious Eye Damage / Irri		tegory 2a – over 10% of ingre							
Respiratory / Skin Sensitiz		t classified (Based on availab							
Germ Cell Mu		t classified (Based on availab	le data, the classifica	tion criteria are not met)					
Carcir	-	t classified (Based on availab							
Reproductive To	xicity No	t classified (Based on availab	le data, the classifica	tion criteria are not met)					
STOT – single exp	osure Ca	tegory 3 - respiratory over							
STOT – repeated exp		classified (Based on available data, the classification criteria are not met)							
Aspiration H	azard No	t classified (Based on availab	le data, the classifica	tion criteria are not met)					
Likely routes of exposure	Ski	n, ingestion, inhalation							
Symptoms related to the physi	cal, chemi	cal and toxicological			nemical and physical properti				
characteristics	,	Ŭ			s may cause gastrointestinal				
				n with nausea, vomiting and					
				0	y also have allergic reaction				
Delayed and immediate offects	and abra	aio offosto from abort		nental sulfur. ion of contents or smoke from	m huming flare will cause				
Delayed and immediate effects	and chro	nic effects from short		n to the lungs and mucus me					
long term exposure				ed skin contact with contents					
Interactive effects				ormation found	· , · · · · · · · · · · · · · · · · · ·				
12. Ecological Inform									
Ingredient toxicity / persistenc	e / degrad	ability / bioaccumulati	ion / mobility in	soil and water					
Aquatic Toxicity	aculeatu	trate: Acute toxicity - Fishes, s, LC100, 2.912 mg/l		-					
	aquatic i	city to fish LC50 - Oncorhync nvertebrates: EC50 - Daphnia	a magna (Water flea)	– > 5,000 mg/l - 48 h					
		<u>Chlorate</u> : fish: LC50 oncorhyn 13 mg/l 24 hr	cnus mykiss (rainbow	mykiss (rainbow trout) 1750 mg/l – 96 hr, EC50 daphnia magna (water					
		<u>l</u> : Oil Mist, Mineral Lepomis n	nacrochirus (LC50) 90	6 hour(s) >100 mg/l Oncorh	ynchus mykiss (LC50) 96				
	Potassium N	l <u>itrate:</u> fish: Guppy (Poecilia I mg/l – 48hr	Reticulata) LC50 180) mg/L (96 h); zooplankton: D	Daphnia magna				

LC50 490mg/1 – 48hr <u>Potassium Nitrate</u>: Soluble in water Persistence is unlikely based on information available. No information found Persistence / Degradability Bioaccumulation / Accumulation

no pc flare



13. **Disposal Considerations**

Disposal methods

Flares should be allowed to burn to completion. Partially burned or unburned flares, spilled contents, and ash from burned flares should be disposed of in accordance with federal, state, and local requirements. Consult factory for any additional disposal concerns.

14. Transpor	14. Transportation Information									
Description	ID Number	shipping name	hazard class	packing <u>group</u>	EX Number	Reportable Quantities	Shipping method			
Domestic <u>Shipments</u>				<u></u>						
No inner packaging	*NA1325	Fusee	4.1	Ш	EX1992090001	none	Ground only			
Retail Packaging	**UN3178	Flammable solid, inorganic (highway flares or fusees)	4.1	II	EX2002110114	none	Ground only			
International / Air										
Inner Packaging (bag)	UN0373	Signal devices, hand	1.4S		EX1992090001	none	Air / ground			
* As noted on EV100200	0001									

As noted on EX1992090001

** According to 49CFR, Exception for Class 4, flares properly packaged and classed as UN3178, Flammable solid, inorganic (highway flares or fusees), may be renamed "Consumer Commodity" and reclassed as ORM-D and offered for transportation and transported in accordance with the applicable provisions of that subchapter.

Marine Pollutant: no

Special precautions for user: No information available

15. Reg	ulatory	⁷ Infor	mation									
US Regulat	ions	TSC	A CERCLA	CWA	CAA	SARA 313	SARA 302	Acute	Chronic	Fire	Reactivity	Pressure
Strontium Nitrate		yes	no	no	no	no	no	yes	no	no	yes	no
Sulfur		yes	no	no	no	no	no	yes	no	yes	no	no
Potassium Nitrate		yes	no	no	no	yes	no	no	no	no	yes	no
Paraffinic Oil		yes	no	no	no	no	no	no	no	no	no	no
Potassium Chlorate		yes	no	no	no	no	no	yes	no	no	yes	no
Waxy sawdust		yes	no	no	no	no	no	no	no	no	no	no
Polyvinyl Chloride		yes	no	no	no	no	no	yes	no	no	no	no
Shellac Mixture		yes	no	no	no	yes	no	unknown	unknown	unknown	unknown	Unknown
Charcoal		yes	no	no	no	no	no	no	no	no	no	No
US States	Prop 65	NJ	PA	Canada			WHMIS		DSL	Eu	irope	Wgk
Strontium Nitrate	no	1743	no		C O		rials D1B To: oxic material	kic materials D2B s	yes		-	2
Sulfur	no	1757	yes		B4 F	lammable	solid D2B	Foxic materials	yes			1/nwg
Potassium Nitrate	no	1574	yes			C 0	xidizing mate	rials	yes			1
Paraffinic Oil	no	1437	no				No results		yes			not listed
Potassium Chlorate	yes	1560	yes		СС	xidizing ma	terials D1B	Toxic materials	yes			2
Waxy sawdust	yes	No	no				No results		yes			not listed
Polyvinyl Chloride	no	3622	no				No results		yes			not listed
Shellac Mixture	no	No	no				No results		unknown			not listed
Charcoal	yes	Yes	yes				ery toxic mate		yes			Nwg

16. **Other Information** May 2015

Revision Information:

NFPA F	Rating	HMIS Ratin				
Flammability	1	Flammability	1			
Health	2	Health	2			
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 TSCA: toxic substance control act - US

CERCLA: comprehensive environmental response,

SARA: superfund amendments and reauthorization act – US

compensation and liability act – US CWA: clean water act - US CAA: clean air 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



Legal Statement

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