# **Safety Data Sheet**

Issue Date: 20-Apr-2015

Revision Date: 22-May-2018

Version 1

# **1. IDENTIFICATION**

Product Identifier	
Product Name	15 MM Illuminating Signal Cartridge-Red Signal Flare
Other means of identification	
SDS #	VER-004-CA
Product Code UPC Code Synonyms	014 8 54096 00010 5 None
UN/ID No	UN0312
Recommended use of the chemica	and restrictions on use
Recommended Use	Variety of emergency and signaling uses
Uses Advised Against	No information available
Details of the supplier of the safety	y data sheet
Initial Supplier Identifier ABC Export Import Ltd 25889-38 Th. Ave. Aldergrove, British Columbia V4W 2 Canada	2R4,
Emergency Telephone Number	
Initial supplier phone number Emergency Telephone (24 hr)	Please enter Initial Suppliers Phone Number here CANUTEC- 1-888-226-8832
	2. HAZARDS IDENTIFICATION
Emergency Overview Hazardous	components- Contains pyrotechnical composition, a mixture of an oxidizer and a fuel that will rapidly burn when ignited

Appearance All pyrotechnic

Physical state Solid

Odour Odourless

composition is contained in primered 18 mm plastic holes, placed in cardboard casing

#### **Classification**

Acute toxicity - Oral

Label Elements

<u>Signal word</u> Warning

# Hazard statements

Harmful if swallowed



## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

## **Precautionary Statements - Response**

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### <u>Substance</u>

Not applicable.

#### <u>Mixture</u>

Chemical Name	CAS No	Weight-%	Hazardous Material	Date HMIRA filed
			Information Review	and date exemption
			Act registry number	granted (if

Category 4

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				(HMIRA registry #)	applicable)
PVC F	Resin	9002-86-2	11	-	-
4. FIRST AID MEASURES					
First Aid Measures					
Eye contact		oughly with plenty on a sult a doctor.	of water for at	least 15 minutes, lifting lo	wer and upper
Skin contact	Wash skin	Wash skin with soap and water.			
Inhalation	Remove to	Remove to fresh air.			
ngestion Call a POISON CENTRE/doctor/physician if you feel unwell. Rinse mouth.					
Most important symptoms and effects					
Symptoms	Harmful if s	Harmful if swallowed.			
Indication of any immediate medical attention and special treatment needed					
Note to doctors	Treat symp	tomatically.			

# **5. FIREFIGHTING MEASURES**

Suitable Extinguishing Media	Flood with water, if small number of spilled pieces is involved. Do not use suffocation methods, composition provides its own oxygen.
Unsuitable extinguishing media	Not determined.
Specific hazards arising from the chemical	Shells initiate quickly and contain their own oxygen. Clear the surrounding area and get away. Avoid fire extinguishing, if at least one shipping carton is involved. Each item projects a flaming ball. Contact with strong acids or bases may cause fire or explosion.
Hazardous Combustion Products	Smoke, oxides of barium, nitrogen, sulfur, aluminum, magnesium, strontium, hydrogen monoxide.
Explosion Data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	None. None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6	ACCIDENTAL RELEASE MEASURES		
Personal precautions, protective ed	guipment and emergency procedures		
Personal precautions	Ensure adequate ventilation.		
Environmental precautions			
Environmental precautions	See Section 12 for additional Ecological Information.		
Methods and material for containm	ent and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	No smoking, open flames or sparking in vicinity of broken or spilled items. Sweep up carefully spilled items into cardboard container. Do not use vacuum cleaner.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
	7. HANDLING AND STORAGE		
Precautions for safe handling			
Advice on safe handling	Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.		
Conditions for safe storage, including any incompatibilities			
Storage Conditions	Avoid sources of high temperature, smoking or open flames. Avoid contact with strong acids and alkali bases. Keep shipping cartons cool and dry. Store in dry area, below 71°C (160°F).		
Incompatible materials	Long exposure to water may cause deterioration Devices should not get in any contact with strong acids and alkali bases		

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control parameters**

## Exposure Limits

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# VER-004-CA - 15 MM Illuminating Signal Cartridge-Red Signal Flare

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PVC Resin 9002-86-2	TWA: 1 m	ng/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	
Appropriate engineering controls				
Engineering controls	Showers Eyewash stations Ventilation systems.			
Individual protection measures, s	uch as personal protective e	equipment		
Eye/face protection	No special protective equip	oment require	ed.	
Skin and body protection	No special protective equip	oment require	ed.	
Respiratory protection	No protective equipment is expected or irritation is exp			
General hygiene considerations	Handle in accordance with	good indust	rial hygiene and safety p	practice.
9. PHYSICAL AND CHEMICAL PROPERTIES				
9.	PHYSICAL AND CHE	MICAL P	ROPERTIES	
9. Information on basic physical and Physical state Appearance Colour Odour Odour Odour Threshold				astic holes, placed in
Information on basic physical and Physical state Appearance Colour Odour	I chemical properties Solid All pyrotechnic compositior cardboard casing No information available Odourless			astic holes, placed in
Information on basic physical and Physical state Appearance Colour Odour Odour Threshold	I chemical properties Solid All pyrotechnic compositior cardboard casing No information available Odourless No information available		d in primered 18mm pla	astic holes, placed in
Information on basic physical and Physical state Appearance Colour Odour Odour Odour Threshold	I chemical properties Solid All pyrotechnic compositior cardboard casing No information available Odourless No information available <u>Values</u>		d in primered 18mm pla	astic holes, placed in
Information on basic physical and Physical state Appearance Colour Odour Odour Threshold <u>Property</u> pH	I chemical properties Solid All pyrotechnic compositior cardboard casing No information available Odourless No information available <u>Values</u> Not determined		d in primered 18mm pla	astic holes, placed in
Information on basic physical and Physical state Appearance Colour Odour Odour Threshold <u>Property</u> pH Melting point / freezing point	I chemical properties Solid All pyrotechnic compositior cardboard casing No information available Odourless No information available <u>Values</u> Not determined Not determined		d in primered 18mm pla	astic holes, placed in

Flammability (Solid, Gas) Not determined

# Flammability Limit in Air

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Upper Flammability Limit	Not determined	
Lower Flammability Limit	Not determined	
Vapour Pressure	Not determined	
Vapour Density	Not determined	
Relative Density	Not determined	
Water Solubility	Not determined	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition temperature	180 °C / 350 °F	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
<u>Property</u>	<u>Values</u>	Remarks • Method
Dynamic Viscosity Explosive properties Oxidising properties	Not determined No information available. No information available.	
Other Information Softening Point Molecular weight VOC Content (%) Density Bulk Density	No information available No information available No information available No information available No information available	
	10. STABILITY AND R	EACTIVITY

Reactivity

No information available.

**Chemical Stability** 

Stable under normal conditions.

Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerisation	Will not occur.
Conditions to Avoid	Heat and open flame, other sources of ignition.
Incompatible Materials	Long exposure to water may cause deterioration. Devices should not get in any contact with strong acids and alkali bases.
Hazardous Decomposition Products	Smoke, oxides of nitrogen, sulfur, magnesium, hydrogen monoxide.

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

# **Product Information**

Eye contact	Avoid contact with eyes.			
Skin contact	Avoid contact with skin.			
Inhalation	Do not inhale.			
Ingestion	Harmful if swallowed.			
Information on physical, chemical and toxicological effects				
Symptoms	Please see section 4 of this SDS for symptoms.			
Numerical measures of toxicity				
Acute Toxicity				
The following values are calculated based on chapter 3.1 of the GHS document . ATEmix (oral) >300				
Unknown acute toxicity	No information available			

## **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Strontium nitrate	= 2750 mg/kg (Rat)= 1892	-	-
10042-76-9	mg/kg (Rat)		
Magnesium	= 230 mg/kg (Rat)	-	-

EN / HGHS

7439-95-4			
Potassium Nitrate	= 3015 mg/kg (Rat)	-	-
7757-79-1			

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Carcinogenicity

Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation are considered IARC group 2A carcinogens. Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Strontium nitrate 10042-76-9	-	Group 2A	-	Х
PVC Resin 9002-86-2	-	Group 3	-	-
Potassium Nitrate 7757-79-1	-	Group 2A	-	Х

## Legend

## IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labour)

X - Present

# **12. ECOLOGICAL INFORMATION**

Ecotoxicity	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence/Degradability	No information available.
Bioaccumulation	No information available.
Other Adverse Effects	No information available.
	13. DISPOSAL CONSIDERATIONS

## Waste Treatment Methods

Waste from residues/unused	Dispose of in accordance with local regulations. Dispose of waste in accordance with
products	environmental legislation.

Contaminated packaging Do not reuse empty containers.

# 14. TRANSPORT INFORMATION

#### Note

Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances

<u>DOT</u> UN/ID No Proper Shipping Name Hazard Class Packing Group	UN0312 Cartridges, signal 1.4G II
<u>TDG</u> UN/ID No Proper Shipping Name Hazard Class Packing Group	UN0312 Cartridges, signal 1.4G II
<u>IATA</u> UN/ID No Proper Shipping Name Hazard Class Packing Group	UN0312 Cartridges, signal 1.4G II
IMDG UN/ID No Proper Shipping Name Hazard Class Packing Group	UN0312 Cartridges, signal 1.4G II

# **15. REGULATORY INFORMATION**

## **REGULATORY INFORMATION**

International Regulations	
Ozone-depleting substances (ODS)	Not applicable
Persistent Organic Pollutants	Not applicable
Export Notification requirements	Not applicable
International Inventories	

Chemical Name	TSCA	DSL/NDS L	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
PVC Resin	Х	Х	Х	Х	Х	Х	Х	Х

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health Hazards Not determined	Flammability 1	Instability Not determined	Special Hazards Not determined
HMIS	Health Hazards Not determined	Flammability 1	Physical hazards Not determined	Personal Protection Not determined
Legend Section 8: EXPO TWA STEL Ceiling *	i i	eighted average) Term Exposure Limit) it value	5	
Revision Date:	22-May-2018			
Revision Note:	No informatio	n available.		

**Disclaimer** 

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## End of Safety Data Sheet