



533 Argentueil LACHUTE, Québec Canada J8H 3Y2

Tel.: (450) 566-0655 Fax: (450) 566-0677

HIGHWAY SAFETY FLARES

MATERIAL SAFETY DATA SHEET

INDEX : CXU 0003/90A DATE : 2016-02-01

EMERGENCY TELEPHONE NUMBER :

OTTAWA, ONTARIO: 613-996-6666

HAZARD SUMMARY (29 CFR 1910.1200)

Physical Hazards : Explosive - Flammable Solid Health Hazards : This is a packaged product that will not result in exposure to the contents under normal conditions.

1. PRODUCT DESCRIPTION

Product Name : Highway Flares Product Class : Signalling Device

SHIPPING DESCRIPTION/UNITED NATIONS (U.S.)

Shipping Name : Signal Devices, Hand (Flammable Solid, N.O.S.) Shipping Class/Division : 1.4S (Flammable Solid) Product Identification No (PIN) : UN0373 Packing Group : II

COMPOSITION

A totally contained mixture of:

Strontium Nitrate Sawdust Sulphur Paraffin Wax Potassium Perchlorate

2. PHYSICAL PROPERTIES

Description : Combustibles contained in a jacket

3. FIRE AND EXPLOSION DATA

Flash Point (method): Not ApplicableAutoignition Temperature: Burns at 335oC in 4 secondsFlammability Limits in Air (%): Not ApplicableFire Extinguishing Media: Do not fight firesFire Fighting Procedures: Evacuate area promptlyOther Fire or Explosion Hazards:Not Applicable





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...2 4. <u>REACTIVITY DATA</u>

Stability:		
Under Normal Conditions	:	Stable
Under Fire Conditions	:	Will ignite if in contact with flames or excess heat
Hazardous Polymerization	:	Will not occur
Conditions to Avoid	:	Shock, impact or heat that may ignite the product
Materials to Avoid	:	Organic solvents, gasoline, diesel oil may dissolve the jacket

Hazardous Decomposition or Combustion Products : Vapors of NOx, SOx

5. TOXICOLOGICAL AND HEALTH DATA

Toxicological Data : This is a manufactured article and may release hazardous product during combustion. Combustion product includes NO, NO2, CO, SO2.

Recommended Expo	sure Limits : PEL (OSHA)	TLV <u>(ACG</u>	<u>IH)</u>
Nitrogen Dioxide	5 ppm-ce	iling	3 ppm
Nitric Oxide	25 ppm		25 ppm
Carbon Monoxide	50 ppm		50 ppm
Sulphur Dioxide	5 ppm		2 ppm

6. PREVENTATIVE MEASURES

Handling Procedures and Equipment : All personnel should keep clear during burning. Avoid inhalation of smoke and vapors.

Storage Temperature (oC) : Ambient temperatures

Storage Requirements : Product should be stored in a cool dry environment and not stored in close proximity to high explosives material.

Other Precautions : This product is classed as a 1.4S explosives in CANADA, Flammable Solid in the U.S.A. Meet all legal requirements for shipping and magazining.





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...3 7. ENVIRONMENTAL PROTECTION DATA

Steps to be taken in the event of a spill or leak : Pick up cautiously as per normal precautions taken in handling explosives.

Environmental Effects : None known

Deactivating Chemicals : Not Applicable

Waste Disposal Methods : Burn under supervision of an expert at an approved location. Call upon the services of a Technical Representative.

8. ADDITIONAL INFORMATION AND SOURCES USED

- 1. Documentation of the Threshold Limit Values and Biological Exposure, 5th ed., American Conference of Governmental Industrial Hygienists Inc., Cinncinati, 1986.
- 2. Grayson, Martin, Ed., Kirk-Othmer Concise Encyclopedia of Chemical Technology, 3rd ed., John Wiley and Sons, New York, 1985.

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