









LINE-THROWING ROCKET

WesCom Signal and Rescue Germany GmbH

Chemwatch: **65-6254** Version No: 3.1.1.1 Safety Data Sheet

Issue Date: 05/09/2016 Print Date: 21/10/2017 L.GHS.CAN.EN

SECTION 1 IDENTIFICATION

Product Identifier

Product name	LINE-THROWING ROCKET
Synonyms	Comet/Pains Wessex rocket for linethrower 250: 9162700, 9500800
Proper shipping name	ARTICLES, PYROTECHNIC for technical purposes
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses

Use according to manufacturer's directions.

being used for establishing a line connection between vessels, ship-to-shore, shore-to-ship and shore based rescue services.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	WesCom Signal and Rescue Germany GmbH
Address	Vieländer Weg 147 Bremerhaven 27574 Germany
Telephone	+49 471 3930
Fax	+49 471 3932 10
Website	www.wescomsignal.com
Email	info@wescomsignal.com

Emergency phone number

Association / Organisation	Consultant Lutz Harder GmbH
Emergency telephone numbers	+49 178 433 7434
Other emergency telephone numbers	Not Available

SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

Classification Explosive Division 1.4, Eye Irritation Category 2B

Label elements

Hazard pictogram(s)



SIGNAL WORD

WARNING

Hazard statement(s)

H204	Fire or projection hazard.
H320	Causes eye irritation.

Hazard(s) not otherwise specified

Not Applicable

Precautionary statement(s) Prevention

, , , , , , , , , , , , , , , , , , , ,			
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P234	ep only in original packaging.		
P250	Do not subject to grinding/shock/sources of friction.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		

Chemwatch: 65-6254 Page 2 of 9 Issue Date: 05/09/2016 Version No: 3.1.1.1 Print Date: 21/10/2017

LINE-THROWING ROCKET

Ground and bond container and receiving equipment.

Precautionary statement(s) Response

P370+P372+P380+P373	In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.	
P370+P380+P375	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	

Precautionary statement(s) Storage

P401 Store in accordance with local regulations for explosives.

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name	
		device contains	
		polytechnic materials of;	
7757-79-1	>60	potassium nitrate	
		rocket propellant;	
9004-70-0	30-60	nitrocellulose	
55-63-0	30-60	nitroglycerin	

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: • Wash out immediately with water. • If irritation continues, seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
Ingestion	 Not considered a normal route of entry. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

DANGER: Deliver media remotely.

- ▶ For minor fires: Flooding quantities only.
- ► For large fires: **Do not** attempt to extinguish

|Apply by mechanical means only.

Special hazards arising from the substrate or mixture

Fire Incompatibility Avoid contact with other chemicals. Chemwatch: 65-6254 Page 3 of 9 Issue Date: 05/09/2016 Version No: 3.1.1.1 Print Date: 21/10/2017

LINE-THROWING ROCKET

Special protective equipment and precautions for fire-fighters

WARNING: EXPLOSIVE MATERIALS / ARTICLES PRESENT!

- Evacuate all personnel and move upwind.
- Prevent re-entry.
- Alert Fire Brigade and tell them location and nature of hazard.
- May detonate and burning material may be propelled from fire.
- Wear full-body protective clothing with breathing apparatus.
- Prevent, by any means available, spillage and fire effluent from entering drains and water courses.
- Fight fire from safe distances and from protected locations.
- Use flooding quantities of water.
 - **DO NOT** approach containers or packages suspected to be hot.
 - Cool any exposed containers not involved in fire from a protected location.
 - ▶ Equipment should be thoroughly decontaminated after use.

Slight hazard when exposed to heat, flame and oxidisers.

Fire/Explosion Hazard

Fire Fighting

Division 1.4 Substances, mixtures and articles which present no significant hazard: substances, mixtures and articles which present only a small hazard in the event of ignition or initiation. The effects are largely confined to the package and no projection of fragments of appreciable size or range is to be expected. An external fire shall not cause virtually instantaneous explosion of almost the entire contents of the package.

Compatibility Group G explosives are pyrotechnic substances, or article containing a pyrotechnic substances, or article containing both an explosive substance and an illuminating, incendiary, tear- or smoke-producing substance (other than a water-activated article or one containing white phosphorus, phosphides, a pyrophoric substance, a flammable liquid or gel, or hypergolic liquids).

Combustible. Will burn if ignited. Combustion products include:

carbon monoxide (CO)

carbon dioxide (CO2)

other pyrolysis products typical of burning organic material.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	WARNING!: EXPLOSIVE. BLAST and/or PROJECTION and/or FIRE HAZARD Clean up all spills immediately. Avoid inhalation of the material and avoid contact with eyes and skin. Wear impervious gloves and safety glasses. Remove all ignition sources. Use spark-free tools when handling. Sweep into non-sparking containers or barrels and moisten with water. Place spilled material in clean, sealable, labelled container for disposal. Flush area with large amounts of water.
Major Spills	WARNING!: EXPLOSIVE. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear full body protective clothing with breathing apparatus. Consider evacuation (or protect in place). In case of transport accident notify Police, Emergency Authority, Competent Explosives Authority or Manufacturer. No smoking, naked lights, heat or ignition sources. Increase ventilation. Use extreme caution to prevent physical shock. Use only spark-free shovels and explosion-proof equipment. Collect recoverable material and segregate from spilled material. Wash spill area with large quantities of water.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

► Handle gently. Use good occupational work practice.

- Observe manufacturer's storage and handling recommendations contained within this SDS.
- Avoid all personal contact, including inhalation.
- Avoid smoking, naked lights, heat or ignition sources.
- Explosives must not be struck with metal implements. Avoid mechanical and thermal shock and friction.

Safe handling Use in a well ventilated area

- Avoid contact with incompatible materials.
- When handling DO NOT eat, drink or smoke
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately

Chemwatch: 65-6254 Page 4 of 9 Issue Date: 05/09/2016 Version No: 3.1.1.1

Print Date: 21/10/2017 LINE-THROWING ROCKET

- ▶ Store cases in a well ventilated magazine licensed for the appropriate Class, Division and Compatibility Group.
- Rotate stock to prevent ageing. Use on FIFO (first in-first out) basis.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.
- Store in a cool place in original containers.
- Keep containers securely sealed.
- ▶ No smoking, naked lights, heat or ignition sources.
- Store in an isolated area away from other materials.
- ► Keep storage area free of debris, waste and combustibles.
- ▶ Protect containers against physical damage.
- ► Check regularly for spills and leaks

NOTE: If explosives need to be destroyed contact the Competent Authority.

▶ Store away from incompatible materials.

Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

Suitable container

Other information

- ▶ All packaging for Class 1 Goods shall be in accordance with the requirements of the relevant Code for the transport of Dangerous Goods.
- Class 1 is unique in that the type of packaging used frequently has a very decisive effect on the hazard and therefore on the assignment to a particular

Storage incompatibility

- F Avoid contact with other explosives, pyrotechnics, solvents, adhesives, paints, cleaners and unauthorized metals, plastics, packing equipment and materials
- Avoid contamination with acids, alkalis, reducing agents, amines and phosphorus.
- ► Explosion hazard may follow contact with incompatible materials

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Canada - Ontario Occupational Exposure Limits	nitrocellulose	Particles (Insoluble or Poorly Soluble) Not Otherwise Specified (PNOS)	10, 3 mg/m3	Not Available	Not Available	Not Available
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	nitroglycerin	Nitroglycerin - Skin	2 mg/m3 / 0.2 ppm	2 mg/m3 / 0.2 ppm	Not Available	Not Available
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	nitroglycerin	Ethylene glycol dinitrate and/or Nitroglycerin - Skin	0.2 ppm	Not Available	Not Available	Not Available
Canada - Nova Scotia Occupational Exposure Limits	nitroglycerin	Nitroglycerin [NG]	0.05 ppm	Not Available	Not Available	TLV Basis: vasodilation
Canada - Alberta Occupational Exposure Limits	nitroglycerin	Nitroglycerin (NG)	0.5 mg/m3 / 0.05 ppm	Not Available	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	nitroglycerin	Nitroglycerin (NG)	0.05 ppm	0.15 ppm	Not Available	Skin
Canada - Manitoba Occupational Exposure Limits	nitroglycerin	Not Available	0.05 ppm	Not Available	Not Available	Not Available
Canada - Quebec Permissible Exposure Values for Airborne Contaminants (English)	nitroglycerin	Nitroglycerin (NG)	Not Available	Not Available	1,86 mg/m3 / 0.2 ppm	Not Available
Canada - Northwest Territories Occupational Exposure Limits English)	nitroglycerin	Nitroglycerin (NG)	0.05 ppm	0.15 ppm	Not Available	Skin
Canada - British Columbia Occupational Exposure Limits	nitroglycerin	Nitroglycerin (NG)	0.05 ppm	Not Available	Not Available	Not Available
Canada - Prince Edward Island Occupational Exposure Limits	nitroglycerin	Nitroglycerin	0.05 ppm	Not Available	Not Available	TLV® Basis: Vasodilation

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
potassium nitrate	Potassium nitrate	9 mg/m3	100 mg/m3	600 mg/m3
nitroglycerin	Nitroglycerin	0.1 mg/m3	2 mg/m3	75 mg/m3

Ingredient	Original IDLH	Revised IDLH
potassium nitrate	Not Available	Not Available
nitrocellulose	Not Available	Not Available
nitroglycerin	75 mg/m3	Not Available

MATERIAL DATA

Exposure controls

Appropriate	engineering
	controls

Engineering controls for explosive articles are designed to reduce or eliminate fragmentation and/or blast effects either by suppression of the source of detonation or by protection at the exposed location, or both. Barricades, shields, contained detonation chambers, and "zero quantity-distance (Q-D)"

Chemwatch: 65-6254 Page 5 of 9
Version No: 3.1.1.1

LINE-THROWING ROCKET

Issue Date: **05/09/2016**Print Date: **21/10/2017**

magazines are examples of engineering controls. Engineering controls are designed and tested in a rigorous fashion. The construction of the engineering control must be carefully duplicated in field applications to assure it will function properly. It is thus imperative that engineering controls be built exactly in accordance with the design package, and that they be used only for the articles (e.g.munitions) for which they are authorised. Personal protection Safety glasses with side shields Eve and face protection Chemical goggles Skin protection See Hand protection below ▶ Wear chemical protective gloves, e.g. PVC. Hands/feet protection ▶ Wear safety footwear or safety gumboots, e.g. Rubber **Body protection** See Other protection below ▶ Fire resistant/ heat resistant gloves where practical, otherwise ▶ Heavy-duty chemically resistant gloves capable of providing short-term protection against spontaneous ignition. Other protection Safety footwear Hard hat |Ear Protection. Thermal hazards Not Available

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^{^ -} Full-face

 $A(All\ classes) = Organic\ vapours,\ B\ AUS\ or\ B1 = Acid\ gasses,\ B2 = Acid\ gas\ or\ hydrogen\ cyanide(HCN),\ B3 = Acid\ gas\ or\ hydrogen\ cyanide(HCN),\ E = Sulfur\ dioxide(SO2),\ G = Agricultural\ chemicals,\ K = Ammonia(NH3),\ Hg = Mercury,\ NO = Oxides\ of\ nitrogen,\ MB = Methyl\ bromide,\ AX = Low\ boiling\ point\ organic\ compounds(below\ 65\ degC)$

Respiratory protection not normally required due to the physical form of the product.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Steel tube with grey outer casing pressed with black/grey	polytechnical ingredients.	
Physical state	Manufactured	Relative density (Water = 1)	Not Applicable
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	>71
pH (as supplied)	Not Applicable	Decomposition temperature	Not Applicable
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	160	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 ▶ Presence of shock and friction ▶ Presence of heat source and ignition source ▶ Product is considered stable under normal handling conditions.

Chemwatch: 65-6254 Page 6 of 9 Issue Date: 05/09/2016 Version No: 3.1.1.1 Print Date: 21/10/2017

LINE-THROWING ROCKET

	Stable under normal storage conditions. Hazardous polymerization will not occur. Avoid contact with other chemicals.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information	٥n	toxical	naical	effects
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Inhaled Ingestion Skin Contact	Not normally a hazard due to physical form of product. Inhalation of vapour is more likely at higher than normal temperatures. The vapour is discomforting Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments Not normally a hazard due to physical form of product. The vapour is discomforting Not normally a hazard due to physical form of product. The vapour is discomforting	
Skin Contact	Considered an unlikely route of entry in commercial/industrial environments Not normally a hazard due to physical form of product. The vapour is discomforting Not normally a hazard due to physical form of product.	
Skin Contact .	The vapour is discomforting Not normally a hazard due to physical form of product.	
Chronic	► Generally not applicable.	
	1	
LINE-THROWING ROCKET		IRRITATION New April 1981
	Not Available	Not Available
	TOXICITY	IRRITATION
potassium nitrate	dermal (rat) LD50: >5000 mg/kg ^[1]	Not Available
	Oral (rat) LD50: >2000 mg/kg ^[1]	
	TOXICITY	IRRITATION
nitrocellulose		Not Available
	TOXICITY	IRRITATION
nitroglycerin	dermal (rat) LD50: >9 mg/kg ^[1]	Not Available
	Oral (rat) LD50: 105 mg/kg ^[2]	
	Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. data extracted from RTECS - Register of Toxic Effect of chemical Substances	* Value obtained from manufacturer's SDS. Unless otherwise specified
NITROCELLULOSE	No significant acute toxicological data identified in literature search.	
NITROGLYCERIN	The material may produce severe irritation to the eye causing pronounced inflam conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and often characterised by skin redness (erythema) and swelling epidermis. Histolog and intracellular oedema of the epidermis. Substance has been investigated as a tumorigen, mutagen and reproductive efforts.	d may produce a contact dermatitis (nonallergic). This form of dermatitis is gically there may be intercellular oedema of the spongy layer (spongiosis)
Acute Toxicity		arcinogenicity 🛇
	_	Reproductivity
		ngle Exposure
Respiratory or Skin sensitisation	STOT - Repea	ated Exposure
Mutagenicity		iration Hazard 🚫
gee.y		egend: X – Data available but does not fill the criteria for classificati

✓ – Data available to make classification

One - Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
LINE-THROWING ROCKET	Not Available	Not Available	Not Available	Not Available	Not Available

Chemwatch: 65-6254 Page 7 of 9 Version No: 3.1.1.1

LINE-THROWING ROCKET

Issue Date: 05/09/2016 Print Date: 21/10/2017

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
potassium nitrate	LC50	96	Fish	22.5mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
nitrocellulose	EC50	96	Algae or other aquatic plants	579mg/L	4
	ENDPOINT	TEST DURATION (UR)	SPECIES	VALUE	SOURCE
	ENDPOINT	TEST DURATION (HR)	· · · · · · · · · · · · · · · · · · ·	-	SOURCE
	LC50	96	Fish	1.38mg/L	4
	EC50	48	Crustacea	46mg/L	4
nitroglycerin	EC50	96	Algae or other aquatic plants	0.4mg/L	4
	BCF	192	Fish	0.42mg/L	4
	NOEC	1440	Fish	0.03mg/L	2

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
potassium nitrate	LOW	LOW
nitroglycerin	LOW (Half-life = 14 days)	LOW (Half-life = 0.73 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
potassium nitrate	LOW (LogKOW = 0.209)

Mobility in soil

Ingredient	Mobility
potassium nitrate	LOW (KOC = 14.3)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal

- ▶ Explosives must not be thrown away, buried, discarded or placed with garbage.
- ► Explosives which are surplus, deteriorated or considered unsafe for transport, storage or use shall be destroyed and the statutory authorities shall be notified.
- Fig. This material may be disposed of by burning or detonation but the operation may only be performed under the control of a person trained in the safe destruction of explosives.

Refer to local Waste Disposal Authority and supplier for suitable disposal procedure.

SECTION 14 TRANSPORT INFORMATION

Labels Required



Marine Pollutant

Land	transport	(TDG)

UN number	0431	
UN proper shipping name	ARTICLES, PYROTECHNIC for technical purposes	
Transport hazard class(es)	Class 1.4G Subrisk Not Applicable	
Packing group	Not Applicable	
Environmental hazard	Not Applicable	
Special precautions for user	Special provisions Explosive Limit and Limited Quantity Index ERAP Index	5, 76 25 Not Applicable

Issue Date: 05/09/2016 Page 8 of 9 Version No: 3.1.1.1 Print Date: 21/10/2017 **LINE-THROWING ROCKET**

UN number	0431			
UN proper shipping name	Articles, pyrotechnic for t	echnical purposes		
	ICAO/IATA Class	1.4G		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	1L		
Packing group	Not Applicable			
Environmental hazard	Not Applicable			
	Special provisions		Not Applicable	
	Cargo Only Packing Ir	nstructions	135	
	Cargo Only Maximum	Qty / Pack	75 kg	
Special precautions for user	Passenger and Cargo	Packing Instructions	Forbidden	
	Passenger and Cargo	Maximum Qty / Pack	Forbidden	
	Passenger and Cargo	Limited Quantity Packing Instructions	Forbidden	
	Passenger and Cargo	Limited Maximum Qty / Pack	Forbidden	

Sea transport (IMDG-Code / GGVSee)

UN number	0431
UN proper shipping name	ARTICLES, PYROTECHNIC for technical purposes
Transport hazard class(es)	IMDG Class 1.4G IMDG Subrisk Not Applicable
Packing group	Not Applicable
Environmental hazard	Not Applicable
Special precautions for user	EMS Number F-B , S-X Special provisions Not Applicable Limited Quantities 0

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Canada Categorization decisions for all DSL substances

Safety, health and environmental regulations / legislation specific for the substance or mixture

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products

\parallel POTASSIUM NITRATE(7757-79-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

NITROCELLULOSE(9004-70-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Canada - Northwest Territories Occupational Exposure Limits (English)	Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits
Canada - Alberta Occupational Exposure Limits	Canada Categorization decisions for all DSL substances
Canada - British Columbia Occupational Exposure Limits	Canada Domestic Substances List (DSL)
Canada - Nova Scotia Occupational Exposure Limits	International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List
Canada - Ontario Occupational Exposure Limits	Passenger and Cargo Aircraft
NITROGLYCERIN(55-63-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS	

Canada Domestic Substances List (DSL)

Canada - Northwest Territories Occupational Exposure Limits (English)	Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits
Canada - Alberta Occupational Exposure Limits	Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances
Canada - British Columbia Occupational Exposure Limits	Canada Categorization decisions for all DSL substances
Canada - Nova Scotia Occupational Exposure Limits	Canada Domestic Substances List (DSL)
Canada - Prince Edward Island Occupational Exposure Limits	International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List
Canada - Quebec Permissible Exposure Values for Airborne Contaminants (French)	Passenger and Cargo Aircraft

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Υ
Canada - NDSL	N (nitrocellulose; nitroglycerin; potassium nitrate)
China - IECSC	N (nitroglycerin)
Europe - EINEC / ELINCS / NLP	N (nitrocellulose)
Japan - ENCS	Υ
Korea - KECI	Υ
New Zealand - NZIoC	Υ

Chemwatch: 65-6254 Page 9 of 9 Issue Date: 05/09/2016 Version No: 3.1.1.1 Print Date: 21/10/2017

LINE-THROWING ROCKET

Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC - TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors

BEI: Biological Exposure Index

end of SDS