According to: 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS Trade Name: Detonator with Detonating Cord

SECTION 1 – IDENTIFICATION C Name, Address, and Telephone of t		TURE AND OF THE COMPA	NY/UNDERTAKING	
Dyno Nobel Inc. 6440 S. Millrock Drive, Suite 500 Salt Lake City, Utah 84121 Phone: 801-364-4800 Fax 801-321-67 E-Mail: <u>dnna.hse@am.dynonobel.com</u> www.dynonobel.com	703	SDS #: Date: Supersec		
1.1 Product Identifier Trade Name: Detonator with Detonating Cord Article Number: 1123 Other Product Identifiers: PRIMALINE [®] SMS Salt Mine Series				
1.2 Relevant Identified uses of the S No further relevant information available		ses Advised Against		
Application of the Substance / the Mixture Explosive product. Commercial blasting applications.				
1.3. Emergency Telephone Number CHEMTREC 1-800-424-9300 +01 703-527-3887	(US/Canada) (International)			

SECTION 2 – HAZARD(S) IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification According to Regulation (EC) No 1272/2008

Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).



exploding bomb

Expl. 1.1 H201 Explosive; mass explosion hazard.

Additional information: There are no other hazards not otherwise classified that have been identified. 0 percent of the mixture consists of component(s) of unknown toxicity

2.2 Label Elements

Labelling According to Regulation (EC) No 1272/2008

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

Hazard Pictograms



GHS01 Signal Word Hazard Statements Precautionary Statements

: Danger

- : H201 Explosive; mass explosion hazard.
- : P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P230 Keep wetted.

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	P250 - Do not subject to grinding/shock/friction.	
	P280 - Wear protective gloves/protective clothing/eye	
	protection/face protection.	
	P240 - Ground/bond container and receiving equipment.	
	P373 - DO NOT fight fire when fire reaches explosives. P370+P380 - In case of fire: Evacuate area.	
	P372 - Explosion risk in case of fire.	
	P401 - Store in accordance with local/regional/national/international	
	regulations. P501 - Dispose of contents/container in accordance with	
	local/regional/national/international regulations.	
Hererd Description	เอเลมาอยู่เอกลมาสแอกลมาและกาลแอกลา กอยู่แลแอกร.	
Hazard Description	· Evaluative products are not clossified under M/UN4C	
WHMIS-Symbols NFPA Ratings (scale 0 - 4)	: Explosive products are not classified under WHMIS. : Not available.	
HMIS-Ratings (scale 0 - 4)	: Not available.	
HMIS Long Term Health Hazard Substar		
7778-74-7 potassium perchlorate		
2.3 Other Hazards		
Results of PBT and vPvB Assessment		
PBT	: Not applicable.	
vPvB	: Not applicable.	
Explosive Product Notice: PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that he is dealing with a powerful force and that various devices and methods have been developed to assist him in directing this force. He should realize that this force, if misdirected, may either kill or injure both		
him and his fellow workers.		
WARNING - All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and		
local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, DO		
NOT USE IT before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, he should consult the manufacturer before use.		
supervisor has any questions or doubts, ne	e should consult the manufacturer before use.	
SECTION 3 – COMPOSITION/INFOR	MATION ON INGREDIENTS	
3.1 Mixtures		
Description: Mixture of substances listed below with nonhazardous additions.		

Description: Mixture of substances listed below with nonhazardous additions. Some delay periods may contain potassium perchlorate. Those that do contain between from about 4 to a maximum of

approximately 60 mg perchlorate per detonator.				
	Dangerous components:			
	CAS: 78-11-5	pentaerythritol tetranitrate (PETN)		
	EINECS: 201-084-3 Index number: 603-035-00-5	Onst. Expl., H200		
	CAS: 7778-74-7	potassium perchlorate		
	EINECS: 231-912-9 Index number: 017-008-00-5	Ox. Sol. 1, H271		

• Acute Tox. <u>4, H302</u>

Additional Information: For the listed ingredients, the identity and exact percentages are being withheld as a trade secret. For the wording of the listed risk phrases refer to section 16.

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According to: 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Trade Name: Detonator with Detonating Cord

SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures

General Information: Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After Inhalation: Unlikely route of exposure.

Supply fresh air; consult doctor in case of complaints.

After Skin Contact: Generally the product does not irritate the skin.

Wash with soap and water.

If skin irritation is experienced, consult a doctor.

After Eye Contact: Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After Swallowing: Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Blast injury if mishandled.

Hazards

Danger of blast or crush-type injuries.

Harmful if swallowed.

Danger of disturbed cardiac rhythm.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Medical supervision for at least 48 hours.

Product may produce physical injury if mishandled. Treatment of these injuries should be based on the blast and compression effects.

SECTION 5 – FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Agents: DO NOT FIGHT FIRE WHEN FIRE REACHES EXPLOSIVES.

For Safety Reasons Unsuitable Extinguishing Agents: None.

5.2 Special Hazards Arising from the Substance or Mixture

DO NOT ATTEMPT TO FIGHT FIRES INVOLVING EXPLOSIVE MATERIALS. Evacuate all personnel to a predetermined safe location, no less than 2,500 feet in all directions. Can explode or detonate under fire conditions. Burning material may produce toxic vapors. It is recommended that users of explosives material be familiar with the Institute of Makers of Explosives Safety Library publications.

Explosive; mass explosion hazard.

5.3 Advice for Firefighters

Protective Equipment: Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional Information

Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Mass explosion of multiple devices is possible under certain conditions. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2012 Emergency response Guidebook for further information.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures Remove persons from danger area. Ensure adequate ventilation Wear protective clothing. Protect from heat. Evacuate area. Isolate area and prevent access.

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Trade Name: Detonator with Detonating Cord

6.2 Environmental Precautions No special measures required. 6.3 Methods and Material for Containment and Cleaning Up Pick up mechanically. Send for recovery or disposal in suitable receptacles. Dispose unusable material as waste according to item 13. 6.4 Reference to Other Sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Open and handle receptacle with care.

Handle with care. Avoid jolting, friction and impact.

Use only in well ventilated areas.

Do not subject to grinding/shock/friction.

Information About Fire - and Explosion Protection: Protect from heat. Prevent impact and friction. Emergency cooling must be available in case of nearby fire.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage:

Requirements to be Met by Storerooms and Receptacles: Store in a cool location.

Avoid storage near extreme heat, ignition sources or open flame.

Information About Storage in One Common Storage Facility: Store away from foodstuffs.

Further Information About Storage Conditions: Store under lock and key and with access restricted to technical experts or their assistants only. Keep away from heat.

7.3 Specific End Use(s): No further relevant information available.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional Information About Design of Technical Facilities: No further data; see item 7.

8.1 Control Parameters

Ingredients with Limit Values that Require Monitoring at the Workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs: No further relevant information available.

PNECs: No further relevant information available.

Additional Information: The lists valid during the making were used as basis.

8.2 Exposure Controls

Personal Protective Equipment:

General Protective and Hygienic Measures: The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory Protection: Not required under normal conditions of use.

Respiratory protection may be required after product use.

Protection of Hands: Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388.

Material of Gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

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According to: 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS Trade Name: Detonator with Detonating Cord

Penetration Time of Glove Material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye Protection:



Safety glasses

Face protection **Body Protection:** Impervious protective clothing **Limitation and Supervision of Exposure into the Environment:** No further relevant information available. **Risk Management Measures:** Organizational measures should be in place for all activities involving this product.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES 9.1 Information on Basic Physical and Chemical Properties **General Information** Appearance Form Solid material Colour According to product specification Odour Characteristic **Odour Threshold** Not determined. pH- Value : Not applicable. Change in Condition Melting point/Melting range : Not Determined. Boiling point/Boiling range : Undetermined. **Flash Point** : Not applicable. Flammability (solid, gaseous) : Explosive; mass explosion hazard. Auto/Self-ignition temperature : Not determined. Decomposition temperature : Not determined. Self-igniting Product is not self-igniting. Danger of explosion Risk of explosion by shock, friction, fire or other sources of ignition. Explosion limits Lower Not determined. Upper : Not determined. Vapour pressure : Not applicable. Density : Not determined. **Relative density** Not determined. Vapour density Not applicable. : Not applicable. **Evaporation rate** Solubility in / Miscibility with water : Variable, dependent upon product composition and packaging. Partition coefficient (n-octanol/water) : Not determined. Viscositv Dynamic Not applicable. **Kinematic** Not applicable. : 9.2 Other Information No further relevant information available.

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SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity:

10.2 Chemical Stability:

Thermal Decomposition / Conditions to be Avoided: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.3 Possibility of Hazardous Reactions: Danger of explosion.

Toxic fumes may be released if heated above the decomposition point.

10.4 Conditions to Avoid: No further relevant information available.

10.5 Incompatible Materials: No further relevant information available.

10.6 Hazardous Decomposition Products: Carbon monoxide and carbon dioxide. Nitrogen oxides. Chlorine compounds.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute Toxicity:

LD/LC50 Values Relevant for Classification: None.

Primary irritant effect:

On the Skin: Not a skin irritant in unused form. Vapors/particles from used product are possibly irritating to skin.

On the Eye: Not an eye irritant in unused form. Vapors/particles from used product are possibly irritating to eyes. **Sensitisation:** No sensitising effects known.

Subacute to Chronic Toxicity: No further relevant information available.

Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU

Classification Guidelines for Preparations as issued in the latest version: Harmful

Acute Effects (Acute toxicity, Irritation and Corrosivity): Danger of blast or crush-type injuries.

Harmful if swallowed.

Repeated dose toxicity: No further relevant information available.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Toxicity: No further relevant information available.

12.2 Persistence and Degradability: No further relevant information available.

12.3 Bioaccumulative Potential: No further relevant information available.

12.4 Mobility in Soil: No further relevant information available.

Additional Ecological Information

General Notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB Assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other Adverse Effects: No further relevant information available.



According to: 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

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SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. Damaged materials pose a danger to anyone in the immediate area; consult experts for disposal of damaged products.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

Uncleaned Packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14 – TRANSPO	RT INFORMATION	
14.1 UN-Number		
DOT, ADR, IMDG	: UN0360	
ΙΑΤΑ	: FORBIDDEN	
14.2 UN Proper Shipping Name		
DOT, IMDG	: DETONATOR ASSEMBLIES, NON-ELECTRIC	
ADR	: 0360 DETONATOR ASSEMBLIES, NON-ELECTRIC	
ΙΑΤΑ	: FORBIDDEN	
14.3 Transport Hazard Clas	s(es)	
DOT		
Class	: 1.1 (**)	
Label	: 1.1	
ADR, IMDG		
Class	: 1.1 · 1.1B	
Label	: 1.1B	
Class	: FORBIDDEN	
14.4 Packing Group	: 11	
DOT, ADR, IMDG IATA	FORBIDDEN	
14.5 Environmental Hazard		
Marine Pollutant	: No	
Special marking (IATA)	: FORBIDDEN BY AIR.	
14.6 Special Precautions fo		
EMS Number	: F-B, S-X	
Segregation groups	: Perchlorates	
eeg. egallon groupe		

SECTION 15 – REGULATORY INFORMATION

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Section 355 (Extremely Hazardous Substances) None of the ingredients are listed. Section 313 (Specific Toxic Chemical Listings) None of the ingredients are listed. TSCA (Toxic Substances Control Act) All ingredients are listed. Proposition 65 (California) Chemicals known to cause cancer None of the ingredients are listed. Chemicals known to cause reproductive toxicity for females None of the ingredients are listed. Chemicals known to cause reproductive toxicity for males None of the ingredients are listed. Chemicals known to cause reproductive toxicity for males None of the ingredients are listed. Chemicals known to cause developmental toxicity None of the ingredients are listed. Chemicals known to cause developmental toxicity None of the ingredients are listed. Chemicals known to cause developmental toxicity None of the ingredients are listed. Chemicals known to cause developmental toxicity None of the ingredients are listed. Chemicals known to cause developmental toxicity None of the ingredients are listed. Chemicals known to cause developmental toxicity None of the ingredients are listed. <th></th>	
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Chemicals known to cause developmental toxicity None of the ingredients are listed.	
None of the ingredients are listed.	
Carcinogenic Categories	
EPA (Environmental Protection Agency)	
7778-74-7 potassium perchlorate	NL
IARC (International Agency for Research on Cancer)	
None of the ingredients are listed.	
TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients are listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients are listed.	
Canada	
Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients are listed.	
Canadian Ingredient Disclosure list (limit 1%)	
None of the ingredients are listed.	
Other regulations, limitations and prohibitive regulations	
This product has been classified in accordance with hazard criteria of the Controlled Products Regulations a	and the
SDS contains all the information required by the Controlled Products Regulations.	
Substances of very high concern (SVHC) according to REACH, Article 57 None of the ingredients are listed.	

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 16 – OTHER INFORMATION	
Revision Date	: 01/06/2015
Other Information	: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a
	legally valid contractual relationship.

Relevant Phrases

- H200 Unstable explosives.
- H271 May cause fire or explosion; strong oxidiser.
- H302 Harmful if swallowed.

Abbreviations and acronyms:

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- WHMIS: Workplace Hazardous Materials Information System (Canada)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- Expl. 1.1: Explosives, Division 1.1
- Unst. Expl.: Explosives, Unstable explosives
- Ox. Sol. 1: Oxidising Solids, Hazard Category 1
- Acute Tox. 4: Acute toxicity, Hazard Category 4





Groundbreaking Performance

According to: 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS Trade Name: Detonator with Detonating Cord

Sources

SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com

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