

MAXCORD Detonating Cord



SAFETY DATA SHEET – INITIATION SYSTEMS

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name:	NITRO SIBIR AUSTRALIA
Address:	Unit 218, 396 Scarborough Beach Road Osborne Park, WESTERN AUSTRALIA 6017
Telephone:	+61 417772219
Fax:	Not applicable
Emergency:	1800 884 289
Synonyms:	MAXCORD, Detonating Cord
Use:	Detonating cord for initiation of explosive charge.
SDS Date:	March, 2017
TDS:	Nitro Sibir TDS Ref: IS02 MAXCORD Detonating Cord

2. Hazards Identification

Classified as hazardous according to Safe Work Australia: HAZARDOUS CHEMICAL.

Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Explosives by Road and Rail: DANGEROUS GOODS.

Classification of the Substance or Mixture:

Explosives – Division 1.1

Signal Word: Danger



Exploding Bomb

Hazard Statement(s):

H201: Explosive; mass explosion hazard

Precautionary Statement(s):

Prevention:

P210: Keep away from heat/sparks/open flames/surfaces - No Smoking.

P240: Ground/bond container and receiving equipment.

P250: Do not subject to grinding/shock/heat/friction/impact or electrical energy from external sources.

P280: Wear protective gloves, protective clothing, eye and face protection.

Response:

P370+380: In case of fire: evacuate area.

P372: Explosion risk in case of fire.

P373: DO NOT fight fire when fire reaches explosives.

Storage:

P401: Store in a well-ventilated magazine licensed for Class 1.1D Explosives in accordance with Australian Standard AS2187.1.

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Disposal:

P501: Dispose of contents in accordance with national/regional/local regulations.

POISONS SCHEDULE (SUSMP): None allocated.

3. Composition / Information on Ingredients

Ingredient	CAS	Proportion
Pentaerythritol tetranitrate (PETN)	78-11-5	> 60%
Materials determined not to be hazardous	-	< 40%

4. First Aid Measures

- Eye:** Dust from product may cause eye irritation. If in eyes, wash out immediately with running water. Continue flushing for several minutes. In all cases of eye contamination, it is sensible to seek medical advice and/or attention.
- Inhalation:** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop, seek medical attention.
- Ingestion:** Immediately rinse mouth with water. If swallowed DO NOT induce vomiting. Seek immediate medical assistance.
- Skin:** If contact with skin occurs, immediately remove any contaminated clothing and wash area thoroughly with running water. Seek immediate medical assistance if irritation occurs.
- Advice to Doctor:** Treat symptomatically. Explosive material. PETN is a vasodilator. May cause methemoglobinemia.

5. FIRE FIGHTING MEASURES

- Suitable Extinguishing Media:** DO NOT FIGHT FIRES. Immediately isolate and evacuate personnel to a safe distance.
- Hazards from Combustion Products:** On burning under confined or semi-confined conditions, this product will emit toxic and/or irritating oxides of carbon and nitrogen including carbon monoxide and carbon dioxide. Brown fumes indicate the presence of toxic oxides of nitrogen. Evacuate to a safe distance safe from fumes and risk of detonation.
- Precautions for Fire Fighters and Special Protective Equipment:** Explosive material. Avoid all ignition sources. Risk of explosion by shock, friction, fire or other sources of ignition. DO NOT FIGHT FIRES. A major fire may involve a risk of explosion. In case of small fire where the actual product is not involved, carefully remove explosives to a safe distance, otherwise immediately isolate area and evacuate personnel to a safe distance and allow to burn. Evacuate upwind as toxic fumes may be generated as the product decomposes.
- HAZCHEM CODE:** E

6. ACCIDENTAL RELEASE MEASURES

- Emergency** Shut off all possible ignition sources. Clear area of all unprotected personnel.



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- Procedures:** Handle with care. Avoid friction and impact. Surplus or defective explosives must not be placed in any waterway, buried, thrown away, discarded or placed with rubbish.
- Spillage:** Contain the spill and ensure that material does not enter any drains or waterways. Collect with non-metallic, anti-spark implements and place in clean, approved containers which are then labelled and sealed.

7. HANDLING AND STORAGE

- Handling:** Handle with great care. Avoid skin and eye contact. DO NOT subject the material to impact, friction, heat or fire. Avoid contamination with other materials. Protect ends of cord from contact with moisture and oil. Wear appropriate personal protective equipment.
- Storage:** Store in a cool, dry, well ventilated magazine licenced for Class 1.1D explosives. Keep away from oxidising materials, combustibles, sources of heat, incompatibles and out of direct sunlight. Keep containers closed when not in use. Keep securely sealed and protected against physical damage. Inspect regularly for spills.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Exposure Limits:** No exposure value has been assigned for this material by Safe Work Australia.
- Engineering Controls:** Use with good general ventilation. Natural ventilation should be adequate under normal conditions of use. Keep products in the original packaging when not in use to prevent exposure to external stimuli.
- Respiratory Protection:** If dust from product exists, wear a dust mask or respirator. Contact supplier.
- Eye Protection:** Use safety glasses when handling and using this product.
- Hand Protection:** Wear gloves of impervious material (PVC or neoprene). Final choice of gloves will vary according to individual circumstances.
- Body Protection:** Wear appropriate clothing including chemical resistant apron if clothing is likely to be contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Flexible cord with a white powder core protected with outer coverings of various materials, finishes and colours.
- Odour:** Odourless
- Flammability:** Explosive solid core – Eliminate all ignition sources
- Flash Point:** Not applicable
- Boiling Point:** Not available
- Melting Point:** Not applicable
- Evaporation Rate:** Not applicable

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pH:	Not available
Vapour Density:	Not available
Specific Gravity:	1.76 g/cm ³
Solubility (water):	Insoluble
Vapour Pressure:	Not applicable
Upper Explosion Limit:	Not applicable
Lower Explosion Limit:	Not applicable
Autoignition Temperature:	Not applicable
Decomposition Temperature:	>150°C (for PETN)
Viscosity:	Not applicable
Partition Coefficient:	Not applicable
% Volatiles:	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under recommended conditions of storage. Extreme risk of explosion from shock, friction, fire or other sources of ignition. Heat, particularly under confinement, may cause a mass explosion.
Conditions to Avoid:	Avoid exposure to heat, sources of ignition and open flame. Avoid exposure to moisture. Avoid build up of static electricity. Avoid contact with other chemicals. Do not subject to friction or impact. Do not attempt to disassemble.
Chemical Incompatibility:	Incompatible with combustible materials, oxidising agents and reducing agents. Incompatible with acids and alkalis.
Hazardous Decomposition:	Thermal decomposition products are toxic and may include oxides of carbon and nitrogen.
Hazardous Reactions:	Explosive material. Can explode or detonate from heavy impact or excessive heating, particularly under confinement. Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information:	No data available for the actual product.
Inhalation:	Not a likely route of exposure. Inhalation of PETN may result in respiratory irritation leading to headache or dizziness.
Ingestion:	Not a likely route of exposure due to product form. However, ingestion of large amounts may result in nausea, vomiting, headaches and reduction in blood pressure.
Skin:	Prolonged or repeated contact with skin may result in redness, itching and irritation.
Eye:	Not a likely route of contact. Dust may be irritating and result in mild abrasion.

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Long Term Effects: PETN has been shown to be a vasodilator and overexposure may result in headaches, weakness and fall in blood pressure. Repeated or prolonged exposure may cause skin sensitisation.

12. ECOLOGICAL INFORMATION

Exotoxicity: No data available for this product.
Aquatic Toxicity: No data available for this product.
Persistence / Degradability: No data available for this product.
Mobility: No data available for this product.
Environmental Protection: Prevent this material from entering waterways and drains.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Small quantities of damaged or deteriorated explosives can be disposed of by inclusion in a blast hole containing good explosives. Refer to Waste Management Authority. In all circumstances, detonation is the preferred method of disposal. Destruction of explosives must only be carried out by suitably qualified personnel.

14. TRANSPORT CONSIDERATIONS



Classified as Class 1 (Explosives) Dangerous Goods according to the Australian Code for the Transport of Explosives by Road and Rail, UN0065, Class 1.1D Explosive. Proper Shipping Name: Cord, Detonating.

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for Transport by Sea, UN0065, Class 1.1D Explosive. Proper Shipping Name: Cord, Detonating.

Transport by air is prohibited under the International Air Transport Association (IATA) Dangerous Goods Regulations for Transport by Air.

Transport Information: Dangerous Goods of Class 1 (Explosives) are incompatible in a placard load with:

- Class 2.1 – Flammable Gas
- Class 2.2 – Non-flammable Non-toxic Gas
- Class 2.3 – Toxic Gas
- Class 3 – Flammable Liquid
- Class 4.1 – Flammable Solid
- Class 4.2 – Spontaneously Combustible Substance
- Class 4.3 – Dangerous When Wet Substance
- Class 5.1 – Oxidising Agent
- Class 5.2 – Organic Peroxide
- Class 6 – Toxic and Infectious Substance
- Class 7 – Radioactive Substance
- Class 8 – Corrosive
- Class 9 – Miscellaneous Dangerous Goods
- Fire Risk Substances

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15. REGULATORY INFORMATION

Classification:	Classified as Hazardous according to the criteria of Safe Work Australia.
Hazard Category:	Explosive – Division 1.1.
Poisons Schedule:	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Inventory Listing(s):	AICS (Australian Inventory of Chemical Substances): All components are listed on AICS.

16. OTHER INFORMATION

Revision Date:	March 2017
Reason(s) for Issue:	Changes to Safe Work Australia's requirements for Safety Data Sheets to align with the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) requirements.

The information contained in this SDS is believed to be accurate and has been obtained from sources considered reliable. Users of this information should make their own investigations to determine the suitability of the information for their particular use or situation. NITRO SIBIR AUSTRALIA does not in any way warrant or imply the applicability, viability or use of this information to any person, for use in any situation.

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