

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:	MAXIDRIVE®, MAXIDRIVE PLUS®
Use:	Blasting agent used in the mining industry
SDS Date:	March, 2015
TDS:	Nitro Sibir TDS Ref: PE01 MAXIDRIVE® and MAXIDRIVE PLUS®

2. Hazards Identification

Hazard Classification:	NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF ASCC.
	CLASSIFIED AS DANGEROUS GOODS ACCORDING TO THE CRITERIA OF THE AUSTRALIAN CODE FOR THE TRANSPORT OF EXPLOSIVES BY ROAD AND RAIL.
RISK PHRASES:	R3: Extreme risk of explosion by shock, friction, fire or other sources of ignition.
SAFETY PHRASES:	S16: Keep away from sources of ignition - No smoking.
	S34: Avoid shock and friction.
	S35: This material and its container must be disposed of in a safe way.

3. Composition / Information on Ingredients

Ingredient	CAS	Proportion
Ammonium Nitrate (H ₃ -N.H-NO ₃)	6484-52-2	> 60%
Sodium Nitrate (Na-N-0 ₃)	7631-99-4	10 - 30%
Aluminium	7429-90-5	0 - <5%
Plastic	-	< 10%
Distillates (petroleum), chemically neutralized light naphthenic [Unrefined or mildly refined base oil]	62-56-6	< 0.5%
Materials determined not to be hazardous	-	to 100%



4. First Aid Measures

Eye:	If eye contact occurs, wash with copious amounts of water holding eyelids open. Take care not to rinse contaminated water into the non-affected eye. In all cases of eye contamination, it is sensible to seek medical advice and/or attention.
Inhalation:	If inhaled, remove from contaminated area. 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 soap and running water. Seek immediate medical assistance if blistering occurs or redness persists.
Advice to Doctor:	Treat symptomatically.
Other Information:	If decomposition products are inhaled, remove to air. Allow patient to assume most comfortable position. Keep at rest until fully recovered. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen. Seek medical assistance.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	If the product ignites then mass cooling by heavy dousing with water should effectively extinguish small fires.
Hazards from Combustion Products:	Under fire conditions, this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
Specific Hazards:	Dangerous when exposed to heat or flames. Can support combustion of other materials involved in fire and is capable of undergoing detonation if heated to high temperatures especially under confinement (including being piled on itself in a burning fire). When heated to decomposition, highly toxic fumes may be emitted.
	DO NOT FIGHT LARGE FIRES. If a fire becomes established, immediately isolate area and evacuate personnel to at least 1600m – do not return until smoke and fumes have dissipated.
Precautions for Fire Fighters and Special Protective Equipment:	Explosive material. DO NOT FIGHT EXPLOSIVE FIRES. Try to keep fire from reaching explosives. Isolate area and evacuate personnel to a safe distance.
Other Information:	Explosives should not be abandoned at any location for any reason. Do not handle during electrical storms.
HAZCHEM CODE:	E

HAZCHEM CODE:

6. ACCIDENTAL RELEASE MEASURES

Emergency	Shut off all possible ignition sources and isolate the area.	Clear area of all
Procedures:	unprotected personnel. Avoid skin contact and remove soiled c	lothing.



Spillage: Small spills should be scooped up and placed in clean, approved containers that are then labelled and sealed. Where possible, all residues should be scraped up for disposal and an inert absorbent material such as sand or vermiculite spread over the area.

For large spills, collect as much of the material as possible and place in clean, approved containers that are then labelled and sealed.

Surplus or defective explosives must not be placed in any waterway, thrown away, discarded or placed with rubbish.

7. HANDLING AND STORAGE

Handling: Use the smallest possible amounts in designated areas with adequate ventilation. Handle with great care. Avoid contact with oxidising materials. Have emergency equipment for fires, spills and leaks readily available. Keep containers closed when not in use. Wear appropriate protective equipment to prevent inhalation, and skin and eye contact. All who come into contact with this material must maintain high standards of personal hygiene, i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

Storage: Store in a cool, dry, well-ventilated magazine licenced for Class 1.1D explosives. Keep storage area free of sources of shock, friction, heat, ignition and combustible materials. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for damage and spills. Always keep in containers made of the same material as the supply container. Have appropriate fire extinguishers available in and near the storage area. Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous. Reference should be made to AS2187.1-1998 Explosives – Storage, transport and use – Storage, and to all state and federal regulations.

Other Information: Use of this product by persons lacking adequate training, experience and supervision may result in injury or death. Obey all Commonwealth, State and local laws and regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National ExposureNo exposure standards have been established for this material, however the TWALimits:SafeWork exposure standard for Dust, Not Otherwise Specified is as below:

Substance	STEL ppm mg/m³	TWA ppm mg/m³	Notice
Dust (NOS)		- 10	-

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

STEL (Short Time Exposure Limit): The average airborne concentration over a 15-minute period that should not be exceeded at any time during a normal eight-hour working day.

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- **Engineering Controls:** Use in a well ventilated area. Ensure sufficient ventilation to keep airborne concentrations below exposure limits. All personnel should be removed to a safe location and protected from air blast and fly rock during blasting operations.
- Eye Protection:Use safety glasses when handling and using this product. Final choice of
appropriate eye/face protection will vary according to individual circumstances.
Eye protection should conform to Australian / New Zealand Standard AS/NZS
1337 Eye Protectors for Industrial Applications.
- Hand Protection: Wear gloves of impervious material (PVC or neoprene). Final choice of gloves will vary according to individual circumstances. Reference should be made to Australian / New Zealand Standard AS/NZS 2616.1: Occupational protective gloves Selection, use and maintenance.
- **Body Protection:** Wear appropriate clothing such as a chemical resistant apron where clothing is likely to be contaminated. It is recommended that a local supplier of personal protective clothing is consulted regarding the choice of material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Continuous string of cartridged, plastic wrapped material with 11g/m detonating cord running through the centre of the entire length. When the package is perforated, the exposed product appears as a silver foamed gel.
Odour:	Not available
Flammability:	Explosive material – avoid all ignition sources and sources of heat.
Flash Point:	Not applicable
Boiling Point:	Not applicable
Melting Point:	Not applicable
Evaporation Rate:	Not applicable
pH:	4.5 - 6.0
Vapour Density:	Not applicable
Specific Gravity:	1.05 – 1.15 g/cm ³
Solubility (water):	Insoluble

10. STABILITY AND REACTIVITY

Conditions to Avoid: Avoid exposure to heat, sources of ignition, open flame, shock and friction.

ChemicalIncompatible with other chemicals. Avoid contact with other explosives,
pyrotechnics, solvents, acids, alkalis, reducing agents, amines, phosphorous,
organic materials / compounds, finely divided combustible materials, finely
divided metals and metal oxides.

HazardousThermal decomposition may result in the release of irritating and/or toxic fumesDecomposition:including ammonia and oxides of nitrogen and carbon.



11. TOXICOLOGICAL INFORMATION

Toxicology Information:	No data available for the actual product. The construction of this product should prevent any chemical contamination. No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label.
Inhalation:	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Ingestion:	Ingestion of product may irritate the gastric tract causing nausea and vomiting.
Skin:	Exposure may cause redness, itching and irritation.
Eye:	Exposure may cause irritation, tearing, stinging, blurred vision and redness.
Long Term Effects:	Prolonged or repeated skin contact may cause defatting leading to dermatitis.
Toxicological Data:	No LD50 data available for this product.

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:Destruction of explosives must only be carried out by suitably qualified and
licensed personnel. If necessary, the relevant Statutory Authorities must be
notified. In all circumstances, detonation is the preferred method of disposal.

The explosives to be destroyed must be placed in direct contact with fresh priming charge in a hole and then adequately stemmed. DO NOT insert detonators into defective explosives.

Personnel must be evacuated to a safe distance in accordance with relevant local regulations prior to initiation of the charge.

NOTE: Detonations in loose or stony ground may be expected to cause fly rock.

If assistance is required regarding the disposal of waste product, please contact a Nitro Sibir Australia representative.

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14. TRANSPORT CONSIDERATIONS



Classified as a Class 1 (Explosives) Dangerous Goods according to the Australian Code for the Transport of Explosives by Road and Rail.

UN Number: UN 0241 Proper Shipping Name: EXPLOSIVE, BLASTING, TYPE E Dangerous Goods Class: 1.1D HAZCHEM Code: E Packaging Method: E8

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

15. REGULATORY INFORMATION

Classification:	Not Classified as Hazardous according to the criteria of National Occupational Health & Safety Commission (NOHSC) Australia.
Hazard Category:	Explosive.
Poisons Schedule:	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
Inventory Listing(s):	AICS (Australian Inventory of Chemical Substances): All components are listed on AICS.

16. OTHER INFORMATION

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.

---- END OF SDS ----

PE01 : MARCH 2015