



Explosives Manufacturing Services

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ABN 30 070 149 129

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ISSUED by Explosives Manufacturing Services Pty Ltd

Product Name : **Python chubby**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Python chubby
Company Name: Explosives Manufacturing Services Pty Ltd
Address: Site 59, KER, Emin St North, Kalgoorlie, WA 6430
Emergency Tel.: +61 400 797 794
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Recommended Use: Primer in small diameter holes

2. HAZARDS IDENTIFICATION

Hazard Classification: Not classified as Hazardous, according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).
Classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Risk Phrase(s) R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.

Safety Phrase(s) S34: Avoid shock and friction.
S35: This material and its container must be disposed of in a safe way.

Other Information: Prolonged exposure to decomposition products may result in respiratory difficulties and possibly severe toxic effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition	Ingredient Name	CAS	Proportion
	Ammonium nitrate	6484-52-2	30.00 - 60.00%
	Monomethylamine Nitrate	-	10.00 - 30.00%
	Water	7732-18-5	10.00 - 30.00%
	Aluminium	7429-90-5	0.00 - 10.00%
	Oxidising substances	-	0.00 - 10.00%
	Ingredients determined not to be hazardous:	Not required	0.00 - 10.00%
	Thiourea	62-56-6	0.00 - 0.50%

MMAN is a combination of 24% water, 25% methylamine (CAS 74-89-5) and 51% nitric acid (CAS 7697-37-2).

Other Information Note: Remainder of ingredients determined not to be hazardous.

4. FIRST AID MEASURES

Inhalation:	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.
Ingestion:	DO NOT INDUCE VOMITING. Wash out mouth with water. Where vomiting occurs naturally have victim place head below hip level in order to reduce risk of aspiration. Seek immediate medical attention.
Skin:	Wash affected area extremely thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. Obtain medical attention if blistering occurs or redness persists.
Eye:	If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.
Advice to Doctor:	Treat symptomatically.
Other Information:	If decomposition products are inhaled remove to fresh 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. Call a physician.

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 any confinement including being piled on itself in a burning fire. When heated to decomposition, highly toxic fumes may be emitted.
Hazchem Code:	DO NOT FIGHT LARGE FIRES. If a fire becomes established immediately isolate area and evacuate personnel to at least 1600 metres - do not return until smoke and fumes have dissipated. E
Precautions in connection with Fire:	DO NOT FIGHT EXPLOSIVES FIRES. Try to keep fire from reaching explosives. Isolate area and evacuate personnel to a safe place.
Other Information:	Explosives should not be abandoned at any location for any reason. Do not handle during electrical storms.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	If material is spilled or released, isolate the area, eliminate ALL sources of ignition, avoid skin contact and remove soiled clothing. Contain the source and spread of the spill and ensure that the material does not enter any waterways or drains.
	Small spills should be scooped up and placed in clean, approved containers which 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 which 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

Precautions for Safe Handling:	Use smallest possible amounts in designated areas with adequate ventilation. Avoid sources of shock, friction, heat and ignition. Avoid contact with oxidising materials. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Label containers. Keep containers closed when not in use. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. It is essential that all who come into contact with this material maintain high standards of personal hygiene ie. Washing hands prior to eating, drinking, smoking or using toilet facilities.
Conditions for Safe Storage:	Store in a cool, dry, well ventilated magazine licensed 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 deficiencies such as damage or leaks. 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 AS 2187.1-1998 Explosives - Storage, transport and use - Storage. Reference should also be made to all State and Federal regulations.
Additional information on precautions for use:	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 Exposure Standards: Biological Limit Values:	No exposure standards have been established for this material, however, the TWA National Occupational Health And Safety Commission (NOHSC) exposure standards for dust not otherwise specified is 10 mg/m ³ . No Biological limit available.
Engineering Controls:	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.
Respiratory Protection:	If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependent upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices
Eye Protection:	Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection:	Wear gloves of impervious material (PVC or neoprene gloves). Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection:	Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Corrugated fibre carton containing film wrapped chubs
Odour:	Not available
Freezing Point:	Not available
Boiling Point:	Not available
Solubility in Water:	Insoluble in water.
Specific Gravity:	1.05 - 1.15
pH Value:	4.5 - 6.0
Vapour Pressure:	Not available
Vapour Density (Air=1)	Not available
Flash Point	Not available
Flammability	Explosive. Eliminate all ignition sources.
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available

10. STABILITY AND REACTIVITY

Conditions to Avoid:	Avoid sources of heat and combustible materials.
Incompatible Materials:	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.
Hazardous Decomposition Products:	Thermal decomposition may result in the release of toxic and/or irritating fumes including ammonia and oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Toxicology Information:	No toxicity data available for this product.
Inhalation:	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Ingestion:	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Skin:	May cause redness, itching and irritation.
Eye:	May cause eye irritation, tearing, stinging, blurred vision, and redness.
Chronic Effects:	Prolonged or repeated skin contact may cause defatting leading to dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No data available for this specific product.
Persistence / Degradability:	No data available for this specific product.
Mobility:	No data available for this specific product.
Environ. Protection	Prevent this material from entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations: Destruction of explosives must be carried out by suitably qualified personnel. If necessary, the relevant statutory authorities must be notified. In all circumstances, detonation is the preferred method disposal.
The explosives to be destroyed must be placed in direct contact with fresh priming charge in a hole and then adequately stemmed. No detonators are to be inserted 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.

BURNING:

Burning may result in the detonation of explosives. Burning explosives produces toxic fumes e.g. oxides of nitrogen and carbon.

Make a sawdust bed or trail adequate for the quantity of explosives to be burned approximately 400mm wide and 40mm deep, upon which the explosive will be laid. If sawdust is not available, newspaper may be used. Normal precautions should be taken against the spread of fire.

Individual trails should not be closer together than 600mm and should contain not more than 12kg of explosive.

Trails should be side-by-side, not in a line, and not more than four should be set up at one time. Remove any explosive that is not to be burnt to a distance of at least 300m.

Sufficient diesel oil (never petrol or other highly flammable liquid) should be used to thoroughly wet the sawdust (or paper). At least 4L per trail is recommended.

Light the trail from a long rolled paper 'wick' which should be placed downwind and in contact with the 1m of trail which is not covered with explosive. The wind should blow so that the flame from the wick (and later from the burning explosives) will blow away from the unburned explosives as detonation is more likely to occur if the explosives are preheated by the flame.

If plastic igniter cord (slow) is available, its use for lighting is recommended instead of paper. One end should be coiled into the sawdust or under the paper and the other end lit from a minimum distance of 7m from the trail. Retire to at least 300m or to a safe place.

Do not return to the site for at least 30 min after the burning has apparently finished.

If the fire goes out do not approach for at least 15 minutes after all traces of fire has gone. Do not add more diesel oil unless certain that the flame is completely extinguished.

14. TRANSPORT INFORMATION

Transport Information: This material is classified as a Class 1 (Explosive) Dangerous Good according to The Australian Code for the Transport of Dangerous Goods by Road and Rail.

Dangerous goods of Class 1 (Explosive) are incompatible in a placard load with any of 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 Substances
- Class 7, Radioactive Substance
- Class 8, Corrosive

- Class 9 - Miscellaneous Dangerous Goods
- Fire risk substances

U.N. Number: 0241
Proper Shipping Name: EXPLOSIVE, BLASTING, TYPE E
DG Class: 1.1D
Hazchem Code: E
Packaging Method:
Packing Group: see 'Other information' (*)
EPG Number: EXP1
IERG Number: 02
Other Information: (*) Unless specific provision to the contrary is made, the packaging used for explosives shall comply with at least the requirements for solids or liquids (as appropriate) of Packing Group II (medium danger).
 Further information related to packaging, IBCS and Unit loads for explosives can be obtained from Australian Explosives Code.

15. REGULATORY INFORMATION

Poisons Schedule: Not Scheduled
Hazard Category: Explosive

16. OTHER INFORMATION

Date of preparation or last revision of MSDS: MSDS reviewed: June 2011
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DISCLAIMER: The information and suggestions above concern explosive products which should only be dealt with by persons having appropriate technical skills, training and licences. The results depend to a large degree on the conditions under which the products are stored, transported and used.
 While Explosives Manufacturing Services (Australia) makes every effort to ensure the details contained in the data sheet are as current and accurate as possible the conditions under which its products are used are not within Explosives Manufacturing Services (Australia) Limited's control. Each user is responsible for being aware of the details in the data sheet and the product applications in the specific context of the intended use. Buyers and users assume all risk, responsibility and liability arising from the use of this product and the information in this data sheet. Explosives Manufacturing Services (Australia) Limited is not responsible for damages of any nature resulting from the use of its products or reliance upon the information. Explosives Manufacturing Services (Australia) Limited makes no express or

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