1. IDENTIFICATION

GHS Product Identifier
TITAN® SOLID SENSITISED MATRIX SERIES

Product Code

Company Name
Dyno Nobel Asia Pacific Pty Limited

Address
282 Paringa Road
Gibson Island
Murarrie, QLD 4172
Australia

Telephone/Fax Number
Tel: (07) 3026 3900
Fax: (07) 3026 3999

Emergency phone number
1800 098 836

Recommended use of the chemical and restrictions on use
Blasting explosive.
Suitable for general mining and quarrying applications. Matrices are sensitised by blending with microballoons or similar solid sensitising agents during delivery into boreholes using an approved delivery system.

Other Names

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titan BPC</td>
<td></td>
</tr>
</tbody>
</table>

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture
Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
Carcinogenicity: Category 2
Explosives: Division 1.5
Eye Damage/Irritation: Category 2A
Skin Corrosion/Irritation: Category 2
STOT Single Exposure: Category 3 (respiratory tract irritation)

Signal Word(s)
DANGER

Hazard Statement(s)
H205 May mass explode in fire.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.

**Pictogram(s)**
Exclamation mark, Health hazard

**Precautionary statement – Prevention**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P230 Keep wetted with suitable materials.
P240 Ground/bond container and receiving equipment.
P250 Do not subject to grinding/shock/friction.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.

**Precautionary statement – Response**
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P370+P380 In case of fire: Evacuate area.
P372 Explosion risk in case of fire.
P373 DO NOT fight fire when fire reaches explosives.

**Precautionary statement – Storage**
P401 Store according to manufacturer’s instructions and section 7 of this SDS.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

**Precautionary statement – Disposal**
P501 Dispose of contents/container to an approved waste disposal plant.

**Other Information**
Severe overexposure may interfere with the ability of the blood to carry oxygen (methemoglobinemia). This can cause headache, weakness, to have dizziness and a blue colour to the skin and lips. Higher levels may cause trouble in breathing, collapse and even death.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Nitrate</td>
<td>6484-52-2</td>
<td>&gt;60 %</td>
</tr>
<tr>
<td>Ingredients determined not to be hazardous, including water</td>
<td></td>
<td>&lt;25 %</td>
</tr>
<tr>
<td>Inorganic oxidisers</td>
<td></td>
<td>&lt;15 %</td>
</tr>
<tr>
<td>Emulsifiers</td>
<td></td>
<td>&lt;10 %</td>
</tr>
<tr>
<td>Oils/Fuels</td>
<td></td>
<td>&lt;10 %</td>
</tr>
<tr>
<td>Other oxygen negative materials</td>
<td></td>
<td>&lt;10 %</td>
</tr>
<tr>
<td>Microballoons</td>
<td></td>
<td>&lt;10 %</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

**Inhalation**  
If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

**Ingestion**  
Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

**Skin**  
Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

**Eye contact**  
If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

**First Aid Facilities**  
Eyewash, safety shower and normal washroom facilities.

**Advice to Doctor**  
Treat symptomatically. May cause methaemoglobinemia. Clinical effects: The smooth muscle relaxant effects of nitrate salts may lead to headache, dizziness and marked hypotension. Cyanosis is clinically detectable when approximately 15% of the haemoglobin has been converted to methaemoglobin (i.e. ferric iron). Symptoms such as headache, dizziness, weakness and dyspnoea occur when methaemoglobin concentrations are 30% to 40%; at levels of about 60%, stupor, convulsions, coma and respiratory paralysis occur and the blood is chocolate brown in colour. At higher levels death may result. Spectrophotometric analysis can determine the presence and concentration of methaemoglobin in blood.

**Treatment:**  
1. Give 100% oxygen.
2. In cases of (a) ingestion: use gastric lavage, (b) contamination of skin (unburnt or burnt): continue washing to remove salts.
3. Observe blood pressure and treat hypotension if necessary.
4. When methaemoglobin concentrations exceed 40% or when symptoms are present, give methylene blue 1 to 2 mg/kg body weight in a 1% solution by slow intravenous injection. If cyanosis has not resolved within one hour a second dose of 2 mg/kg body weight may be given. The total dose should not exceed 7 mg/kg body weight as unwanted effects such as dyspnoea, chest pain, vomiting, diarrhoea, mental confusion and cyanosis may occur. Without treatment methaemoglobin levels of 20-30% revert to normal within 3 days.
5. Bed rest is required for methaemoglobin levels in excess of 40%.
6. Continue to monitor and give oxygen for at least two hours after treatment with methylene blue.
7. Consider transfer to centre where haemoperfusion can be performed to remove the nitrates from the blood if the condition of the patient is unstable.
8. Following inhalation of oxides of nitrogen the patient should be observed in hospital for 24 hours for delayed onset of pulmonary oedema.

Further observation for 2-3 weeks may be required to detect the onset of inflammatory changes of bronchiolitis fibrosa obliterans.
Other Information
For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
DO NOT FIGHT FIRES. Immediately isolate area and evacuate personnel to a safe distance. Use only remote or fixed extinguishing systems (sprinklers).

Hazards from Combustion Products
Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon oxides, nitrogen oxides.

Specific Hazards Arising From The Chemical
Extreme risk of explosion by shock, friction, fire or other sources of ignition. In case of fire: Evacuate area. DO NOT fight fire when fire reaches explosives. Burning material may produce toxic vapors.

Hazchem Code
E

Decomposition Temperature
Not available

Precautions in connection with Fire
DO NOT fight fire when fire reaches explosives. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use only remote or fixed extinguishing systems (sprinklers).

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures
Avoid breathing fumes or gases from detonation of explosives. Notify authorities in accordance with emergency response procedures. Only personnel trained in emergency response should respond. Shut off all possible ignition sources. Contain the source and spread of the spill and ensure that the material does not enter any waterways or drains. If no fire danger is present, and product is undamaged and/or uncontaminated, repackage product in original packaging or other clean approved container. Ensure that a complete account of product has been made and is verified. If loose explosive powder is spilled, such as from a broken detonator, only properly qualified and authorised personnel should be involved with handling and clean-up activities. 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, buried, thrown away, discarded or placed with rubbish. Spilled explosive powder is extremely sensitive to initiation and may detonate. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations. In the case of a transport accident notify the Police, Explosives Inspector and Dyno Nobel Asia Pacific, Mt Thorley Technical Centre, Telephone:(02) 6574 2500.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Avoid exposure. Do not handle until all safety precautions have been read and understood. Only properly qualified and authorised personnel should handle and use explosives. Handle with great care. Unintended detonation of explosives or explosive devices can cause serious injury or death. Use in designated areas with adequate ventilation. Avoid sources of shock, friction, heat and ignition. Do not use near welding and avoid sparks. Do not smoke. Avoid contact with oxidising materials. DO NOT use in confined spaces. Build up of mists or vapours in the atmosphere must be prevented. Avoid breathing in spray or mists or vapours. Detonation in confined or unventilated areas may result in exposure to hazardous fumes or oxygen deficiency. Have emergency equipment (for 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. Maintain high standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities
Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Only properly qualified and authorised personnel should handle and use explosives. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Keep away from heat, sparks, open flames, hot surfaces. Take precautions against static electricity discharges. Use proper grounding procedures. Do not subject to friction. Ensure that storage conditions comply with applicable local and national regulations.

For information on the design of the storeroom, reference should be made to Australian Standard AS 2187 Explosives - Storage, transport and use.

Titan matrix should be stored according to recommendations outlined in the AEISG Code of Practice for Ammonium Nitrate Emulsions, Suspensions or Gels - ANE's (UN3375)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.

Mineral Oil
TWA: 5 mg/m³
For dust created after detonations: the TWA exposure standards for dust not otherwise specified is 10 mg/m³. As with all chemicals, exposure should be kept to the lowest possible levels.
As a result of detonation of this product, oxides of nitrogen or carbon fumes may be liberated.

Nitrogen Dioxide
TWA: 3 ppm; 5.6 mg/m³
STEL : 5 ppm; 9.4 mg/m³

Carbon Monoxide
TWA: 30 ppm; 34 mg/m³

Carbon Dioxide
TWA: 5000 ppm; 9000 mg/m³
STEL : 30000 ppm; 54000 mg/m³

Carbon Dioxide (Coal Mines)
TWA: 12500 ppm; 22500 mg/m³
STEL : 30000 ppm; 54000 mg/m³

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 week.
STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Source: Safe Work Australia

Biological Limit Values
No biological limits allocated.

Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. 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, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection
Wear gloves of impervious material such as neoprene. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.
Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection
Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled. The use of plastic aprons and rubber boots is recommended. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Properties</th>
<th>Description</th>
<th>Properties</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
<td>Appearance</td>
<td>Creamy off white to pinkish emulsion, oily and gritty to touch</td>
</tr>
<tr>
<td>Colour</td>
<td>Off white</td>
<td>Odour</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
<td>Melting Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not applicable</td>
<td>Solubility in Water</td>
<td>Insoluble but dispersible with water jets</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
<td>Vapour Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour Density (Air=1)</td>
<td>Not applicable</td>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>Not available</td>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>Not available</td>
<td>Density</td>
<td>1.10 - 1.42 g/cm³</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
<td>Flammability</td>
<td>Explosive</td>
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<td>Auto-Ignition Temperature</td>
<td>Not available</td>
<td>Flammable Limits - Lower</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammable Limits - Upper</td>
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<td>Explosion Properties</td>
<td>Explosive class 1.5D</td>
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<tr>
<td>Oxidising Properties</td>
<td>Not available</td>
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<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Chemical Stability
Extreme risk of explosion by shock, friction, fire or other sources of ignition.

Reactivity and Stability
May explode when subjected to fire, supersonic shock or high-energy projectile impact, especially when confined or in large quantities.

Conditions to Avoid
Shock, friction, heat, open flames and other sources of ignition. Keep away from combustible material.

Incompatible materials
Oxidising agents. Keep away from combustible material. Corrosives (strong acids and strong bases or alkalis).
Ammonium Nitrate is incompatible with tetranitromethane, dichloroisocyanuric acid, trichloroisocyanuric acid, any bromate, chloride, chlorite, hypochlorite or chloroisocyanurate or any inorganic nitrite.

Hazardous Decomposition Products
Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon oxides, nitrogen oxides.

Possibility of hazardous reactions
Highly reactive explosive. When detonated or heated to decomposition, this product will evolve highly toxic gases.

Hazardous Polymerization
Will not occur.
11. TOXICOLOGICAL INFORMATION

Toxicology Information
Toxicity data for material given below.

Acute Toxicity - Oral
Ammonium nitrate
LD50 (rat): 2217 mg/kg (reference: RTECS)

Ingestion
Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Ingestion of large amounts may cause cyanosis, nausea, collapse, vomiting, abdominal pain, rapid heartbeat and breathing, coma, convulsions and death may occur.

Inhalation
Inhalation of product vapours may cause irritation of the nose, throat and respiratory system. May cause respiratory irritation. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system.

Skin
Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. This product contains a substance (ammonium nitrate) which may be absorbed through intact skin with resultant toxic effects.

Eye
Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness. Serious eye damage may result from explosive fragments.

Respiratory sensitisation
Not expected to be a respiratory sensitiser.

Skin Sensitisation
Not expected to be a skin sensitiser.

Germ cell mutagenicity
Not considered to be a mutagenic hazard.

Carcinogenicity
Suspected of causing cancer. Classified as a suspected human carcinogen.

Reproductive Toxicity
Not considered to be toxic to reproduction.

STOT-single exposure
May cause respiratory irritation.

STOT-repeated exposure
Not expected to cause toxicity to a specific target organ.

Aspiration Hazard
Not expected to be an aspiration hazard.

Other Information
As a result of detonation of this product, oxides of nitrogen or carbon fumes may be liberated. Nitrogen oxides are skin, eye and respiratory system irritants. Systematic toxicity resulting from oxidation of lung tissue and bronchopneumonia. Acute exposure can lead to death from asphyxia or pulmonary oedema. In animals, nitrogen oxide caused methemoglobinemia, was not carcinogenic, but caused embryotoxicity and reproductive effects. Carbon dioxide is a colourless, odourless gas. It is a simple asphyxiant, attacking the lungs, skin and cardiovascular system. Concentrations of 5% may produce shortness of breath and headache and concentrations of 10% can produce unconsciousness and death from oxygen deficiency. Adequate ventilation will provide sufficient protection from any carbon dioxide accumulations. Carbon monoxide is a colourless, odourless, tasteless gas which, when inhaled, combines with haemoglobin to form carboxyhaemoglobin which interferes with the oxygen-carrying capacity of blood. Symptoms include headache, dizziness, drowsiness, nausea, vomiting, collapse, coma and death. Carbon monoxide attacks the central nervous system, lungs, blood and cardiovascular system. Do not enter any area where accumulations of these gases are suspected without appropriate breathing apparatus.
12. ECOLOGICAL INFORMATION

Ecotoxicity
No ecological data available for this material

Persistence and degradability
Not available

Mobility
Not available

Bioaccumulative Potential
Not available

Other Adverse Effects
Not available

Environmental Protection
Do not discharge this material into 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 of 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.

Dispose of material in accordance with state regulatory and environmental legislation and AS2187.2.
Small quantities of explosive may be disposed/destroyed by dilution in water jet and/or detergent solution.
Deteriorated or waste explosive may be disposed of by detonation by inclusion in a blast hole when loaded with good explosives.
Disposal of large quantities of explosive may require services from a Licensed Waste Contractor; contact Dyno Nobel for further information.

14. TRANSPORT INFORMATION

Transport Information
Road and Rail:
This material is classified as Dangerous Goods Class 1 Explosives.
Class 1 Dangerous Goods are incompatible in a placard load with any of the following:
- Division 2.1: Flammable gases
- Division 2.2: Non-flammable Non-toxic Gases
- Division 2.3: Toxic Gases
- Class 3: Flammable Liquids
- Division 4.1: Flammable Solids
- Division 4.2: Spontaneously Combustible Substances
- Division 4.3: Dangerous when wet Substances
- Division 5.1: Oxidising substances
- Division 5.2: Organic Peroxides
- Class 6: Toxic or Infectious Substances
- Class 7: Radioactive materials unless specifically exempted
- Class 8: Corrosive Substances
- Class 9: Miscellaneous substances
- Fire risk substances

Marine Transport (IMO/IMDG):
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
Class/Division: 1.5D
UN No: 0332
Proper Shipping Name: EXPLOSIVE, BLASTING, TYPE E (AGENT, BLASTING, TYPE E)
EMS: F-B-S-Y

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
Class/Division: 1.5D
UN No: 0332

Proper Shipping Name: EXPLOSIVE, BLASTING, TYPE E (AGENT, BLASTING, TYPE E)
Packaging Instructions (passenger & cargo): Forbidden
Packaging Instructions (cargo only): Forbidden

U.N. Number
0332

UN proper shipping name
EXPLOSIVE, BLASTING, TYPE E (AGENT, BLASTING, TYPE E)

Transport hazard class(es)
1.5D

Packing Group
see 'Other information' (*)

Hazchem Code
E

Special Precautions for User
Not available

IERG Number
02

IMDG Marine pollutant
No

Transport in Bulk
Not available

Other Information
(*) Unless specific provision to the contrary is made, the packagings 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

Regulatory information
Classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia.
Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule
Not Scheduled

16. OTHER INFORMATION

Date of preparation or last revision of SDS
SDS Reviewed: June 2016
Supersedes: September 2012

References
Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
Standard for the Uniform Scheduling of Medicines and Poisons.
Australian Code for the Transport of Dangerous Goods by Road & Rail.
Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Workplace exposure standards for airborne contaminants.
Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH). Globally Harmonised System of classification and labelling of chemicals.

Contact Person/Point
Dyno Nobel Asia Pacific Limited
Mt Thorley Technical Centre
Telephone: +61 2 6574 2500
Fax: +61 2 65 74 6849

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 Dyno Nobel Asia Pacific 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 Dyno Nobel Asia Pacific 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.

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END OF SDS

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