1.1 Product Name
Penthrite

1.2 Company Identification
Austin Powder Argentina S.A.

1.3 Address
Luis Maggi 770 – Rafaela (Santa Fe)

1.4 Phone
03492 – 434851 Fax: 03492 - 433905

2.1 Substance or Preparation
Substance

2.2 Chemical name
Pentaerythritol tetranitrate.

2.3 Synonyms
Nitropenta. Penthrite. PETN.

2.4 CAS Number
78-11-5

2.5 Hazardous components
Penthrite (C₅H₈N₄O₁₂)

3.1 More relevant hazards
Symptoms of overexposure if swallowed. PETN is a vasodilator.

3.2 Specific hazards
Unusual fire and explosion hazards: Flammable if exposed to fire or severe strokes and/or friction (or electrostatic discharges when it is dry). Do not breathe toxic gases from combustion.

4.1 Inhalation
Remove contaminated individual to fresh air.

4.2 Eye contact
If crystals enter the eyes, wash the eyes with plenty of water and seek medical attention.

4.3 Ingestion
Get medical attention immediately.
## 5 FIRE FIGHTING MEASURES

### 5.1 Appropriate fire fighting measures
Do not fight fire. Evacuate personnel immediately. Let the fire extinguish by itself.

## 6 ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions
Evacuate the area.

### 6.2 Environmental precautions
Do not spill in culverts, gutters or drainages.

### 6.3 Clean-up procedures
Pick up and place spilled material in suitable cardboard or plastic containers for immediate disposal. Do not smoke or initiate fire near the spill area. Use proper personal protective equipment.

## 7 HANDLING AND STORAGE

### 7.1 Handling
- Technical measures: Use proper protective equipment.
- Precautions: Protect containers from physical damage.
- Recommendations on safety manipulation: Avoid contact with incompatible materials.

### 7.2 Storage
- Technical measures: Store preferably separate from other substances.
- Storage conditions: Do not expose to sunlight.
- Incompatible products: Strong alkali or acids.
- Packaging materials: Carton or polythene bag.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters
Reduce the number of individuals at the hazard area to the minimum.

### 8.2 Personal Protective Equipment
- Respiratory protection: Not required under normal conditions.
- Hand protection: Not required, except to avoid abrasion injuries and reduce skin contact.
- Eye protection: Not required under normal conditions.
- Skin and body protection: Use proper clothes.
9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance and odor

9.2 pH
Not applicable

9.3 Decomposition temperature
190º C.

9.4 Flash point
198º C.

9.5 Explosion properties
Not available.

9.6 Steam pressure
Irrelevant at 20°C (0.0011 millibar at 97º C)

9.7 Density
1.76 g/cc (crystal)

9.8 Solubility
Acetone

9.9 Deflagration point
202º C.

10 STABILITY AND REACTIVITY

10.1 Stability
Stable under normal conditions.

10.2 Conditions to be avoided
Sand impurities (they increase ignition sensitivity). Avoid fire, strokes, friction or electrical discharge.

10.3 Materials to be avoided
Strong alkali or acids.

10.4 Hazardous decomposition products
Gaseous nitrogen oxide and carbon oxide.
No hazardous polymerization will occur.

11 TOXICOLOGICAL INFORMATION

11.1 PETN ingestion can cause headache and sickness.

12 ECOLOGICAL INFORMATION

12.1 Persistence/degradability: Biodegradable.
13 DISPOSAL CONSIDERATIONS

13.1 Waste disposal
Dispose material according to local and state regulations, under the direct supervision of qualified personnel. Call Austin Powder for recommendations and assistance. This product can be hazardous under certain conditions and it must be picked, tagged and disposed immediately.

13.2 Waste of contaminated packaging
Incineration.

14 TRANSPORT INFORMATION

14.1 Land transport
Class ADR/RID: 1.1 D
UN No.: 0150

14.2 Domestic navigation routes
Class ADNR: 1.1 D
UN No.: 0150

14.3 Sea transport
Class IMDG: 1.1 D
UN No.: 0150

14.4 Air transport
Class ICAO/IATA: 1.1 D
UN No.: 0150

15 REGULATORY INFORMATION

15.1 Specific regulations
Consider national and local applicable regulations.

16 ADDITIONAL INFORMATION

N/A