



1 PRODUCT AND COMPANY IDENTIFICATION

- 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 COMPOSITION/INFORMATION ON INGREDIENTS

- 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 HAZARD IDENTIFICATION

- 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 FIRST AID MEASURES

- 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 **M 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**
Solid. Clear. White. Odorless.
- 9.2 pH**
Not applicable
- 9.3 Decomposition temperature**
190° C.
- 9.4 Flash point**
198° C.
- 9.5 Explosion properties**
Not available.
- 9.6 Steam pressure**
Irrelevant at 20°C (0.0011 millibar at 97° C)
- 9.7 Density**
1.76 g/cc (crystal)
- 9.8 Solubility**
Acetone
- 9.9 Deflagration point**
202° 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



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INTERNATIONAL

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