

# SAFETY DATA SHEET

PRODUCT: PLAIN DETONATOR

MAXAM • FANEXA

Nº: FDS – 06/Ed.6

Date of issue: 08/03/2015

Configured: SHEQ

Aproved: GG

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## 1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

Name of the Product: **PLAIN DETONATOR**

Details of the Manufacturer: MAXAM – FANEXA S.A.M.  
Av. 23 de Marzo Nro. 13  
Cochabamba – Bolivia  
Telf.: (+591) 4 4232816 – Fax: (+591) 4 4256693  
Customer Service: (591) 4 4256693  
**Emergency Number: (591) 717 37010**

## 2. COMPONENTS COMPOSITION AND INFORMATION

This product is a blasting accessory that consists of an aluminum shell containing a charge of a secondary explosive and a charge of a primary explosive.

Primary Explosive: 1) Lead azide.  
2) Lead styphnate.

Secondary explosive: 2) Pentaerythritol tetranitrate, PETN.

## 3. HAZARDS IDENTIFICATION

For people:

- Improper handling of the product may cause it to explode. The detonation of this explosive produces a strong overpressure and heat that may cause serious physical injuries, even death.
- The resultant fumes from the detonation contain nitrogen and carbon oxides which may cause irritation of the respiratory system.

For the environment:

- If the product is to be disposed of, it must be destroyed in reduced quantities in accordance with established procedures (detonation) and under the supervision of qualified/authorized personnel.
- In case of spillage, it **must not** be eliminated through drainage systems or directly to the environment. Danger of pollution corresponding to its chemical components exists (lead based components).

## 4. FIRST AID MEASURES

INHALATION OF RESULTANT FUMES FROM THE DETONATION: remove the victim from the contaminated zone and take them to a ventilated area.

CONTACT OF THE EYES WITH THE COMPONENTS OR EXPLOSIVE RESIDUES: wash thoroughly with water for at least 15 minutes.

CONTACT OF THE SKIN WITH THE COMPONENTS OR EXPLOSIVE RESIDUES: wash with water and neutral soap. Remove contaminated clothes.

INGESTION OF THE COMPONENTS AND/OR EXPLOSIVE RESIDUES: contact the medical service.

**IN ANY OF THE CASES MENTIONED ABOVE, CONTACT THE MEDICAL SERVICE IMMEDIATELY.**

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## 5. FIRE FIGHTING MEASURES

- Do not fight the fire when it reaches or is near explosive materials, move back and protect yourself at a safety distance.
- It is recommended to evacuate the area immediately and avoid breathing the toxic fumes produced by the fire.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

- Eliminate sources of ignition (flame, heat, spark). Ventilate the area and isolate the zone.
- Avoid shocks and frictions. Do not smoke.

Environment protection:

- Protect floors, surfaces, sewers and waterways from the spilled product, report to your immediate superior; act according to the Emergency Plan in case of an abnormal situation.

Cleanup procedures:

- Isolate the area. Pick up using an anti-spark tool, cardboard or wood shovel, or use your hands in case you are wearing antistatic clothes and semi-conductive footwear. Store material in cardboard boxes, for its later destruction in accordance with established procedures.

## 7. HANDLING AND STORAGE

Handling:

- All workers in charge of the handling of the product will receive training about the risks the task bears, and the Safety and Health procedures to follow.
- Avoid any type of flame or spark source and all kind of impacts or friction on the detonator.
- Avoid to open boxes or to manipulate the packages inside the magazines or in roads and avenues.

Storage:

- Store in buildings/magazines that are ventilated, dry, sheltered from the sunlight and heat.
- The floor of the building must be split-free, and made out of incombustible and anti-spark material.
- Store only with approved and compatible explosives.
- Do not store with flammable and oxidizing products.
- Permitted storage amounts, electric/electronic equipments and illumination systems must be in accordance with regulations for explosive storage buildings.
- Do not smoke or build fire, nor generate warm points or sparks.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY: Generally not necessary in well ventilated places.

Avoid inhaling fumes produced by the detonation.

HANDS:

Not required (wash your hands before eating or drinking).

EYES:

The use of approved safety glasses during handling of the product is recommended.

GENERAL:

The use of semi-conductive footwear and antistatic clothing (100% cotton) is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Aluminum shell with an aluminum cap (operculum) inside.

Self-ignition temperature:

200 °C.

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## 10. STABILITY AND REACTIVITY

- Risk of mass explosion in case of fire, friction, strong shocks or electrostatic charges.
- The product remains stable at normal storage conditions.
- Carbon monoxide, nitrogen oxides and lead fumes are generated by its detonation.
- Avoid contact with acids and bases.

## 11. TOXICOLOGICAL INFORMATION

- The fumes produced by the detonation contain components that may cause irritation of the respiratory system.

## 12. ECOLOGICAL INFORMATION

- Avoid contamination of floors and waterways with residues.
- All residues must be destroyed in accordance with established procedures (detonation).

## 13. DISPOSAL CONSIDERATIONS

Recommended Disposal Method:

- Destroy by detonation in small quantities at a time, in accordance with established procedures and under the supervision of qualified personnel.
- Burying this product must never be considered as a form of disposal.

Packaging:

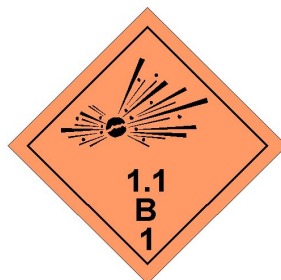
- This product is packaged in cardboard boxes, and may be recycled if not contaminated with explosive residues.

## 14. TRANSPORTATION INFORMATION

- UN number: 0029.
- Proper shipping name: DETONATORS, NON-ELECTRIC for blasting.
- Division: 1.1.
- Compatibility group: B.
- Class: 1.

## 15. REGULATORY INFORMATION

- Labeling:



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**16. ADDITIONAL INFORMATION**

- This product must be stored, handled and used in accordance with the established procedures for a good Health and Safety practice, and in compliance with any legal regulation.

*This safety data sheet describes our product in accordance with safety regulations, and is based in our current experience and information. We make, however, NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, with respect to such information, and we assume no liability resulting from its use.*