



Material Safety Data Sheet for :
DETONEX®

According EC directives

Replace :

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Written by : Société Suisse des
Explosifs

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DETONEX®

Supplier:

Société Suisse des Explosifs
CH-3900 Brig
SWITZERLAND

Tel. Nr. : +41 27 922 71 11

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Appearance : flexible detonating cord with a PETN core.

Components contributing to the hazard :

Chemical Name : pentaerythritoltetranitrate (PETN)

Concentration : 3 - 150 g / m

Classification : 1.1 D

CAS-Registry number : 78-11-5



3. HAZARDS IDENTIFICATION

Most important hazards :

Can detonate when exposed to shock, friction and fire.

Toxic if swallowed.

Specific hazards : Explosion.

Classification : 1.1 D

4. FIRST-AID MEASURES

Skin contact : in case of direct contact with PETN wash with water and soap.

Eye contact : in case of direct contact with PETN wash with plenty water for at least 15 minutes and consult a physician.

Ingestion : consult a physician.

Instructions for the physician : PETN acts as a vasodilatory.

5. FIRE-FIGHTING MEASURES

Extinguishing media: do not fight fire. Withdraw personnel immediately. Allow fire to burn itself out.

Specific danger :

When product is directly involved in a fire :

Danger of explosion – do not try to extinguish.

Toxic gas release (CO, NO_x, HCl).

Warn and evacuate the surrounding area. Shelter (at least 300 meters).

When product is not directly involved in a fire :

Extinguish with appropriated media.

Absolutely avoid communicating fire to the product.

Take the product away from hazard zone if possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions :

Keep away from ignition source, prevent from shock or friction, avoid skin or eye contact.

Environmental precautions :

Avoid dispersion in soil, sewer and river, in case of rain keep released product dry.

Methods for cleaning up: see point 13 too.

Take away product manually and fill it in closed container, use non-sparking and non-metallic tools, keep away unauthorized persons, warn about explosion danger.

7. HANDLING AND STORAGE

Handling :

Technical measures : manipulate carefully in accordance to handling with explosives. Danger of explosion.

Precautions: do not smoke or weld, keep away from open flame, avoid shock and friction.

Safe handling advices : do not eat or drink at work, follow safety procedure for handling explosives approved by local, state and federal laws, regulations and ordinances, employ authorized persons only.

Storage : in authorized warehouse according federal law, keep locked up, do not smoke and keep away from ignition source.

Storage conditions :

suitable : normal temperature and humidity.

Packaging material :

recommended : in the original containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Personal protective equipment :**

respiratory protection : no individual protection required.

hand protection : no special protection required.

eye protection : no special protection required.

skin protection : no special protection required.

Hygiene measures : wash the hands at work end.

9. CHEMICAL AND PHYSICAL PROPERTIES

Appearance : flexible cord encased in a red plastic cover and filled with a white, crystalline powder (PETN).

Colour : red.

Odour : no particular odour.

pH : not applicable.

Melting point : plastic cover melts at 120°C. PETN core melts at 140°C.

Decomposition temperature : explosion danger from 190°C.

Flash point : not applicable.

Explosion properties : sensitivity to shock : > 50 N m (cord)
sensitivity to shock : 3 N m (PETN)
sensitivity to friction : 40 N (PETN)

Density : not applicable.

Weight : 11 - 210 g/m.

Solubility : not soluble in water.

10. STABILITY UND REACTIVITY

Stability : explosive stable at normal storage conditions.

Possible hazardous reactions : fire, explosion.

Conditions to avoid : shocks, frictions, flames, sparks, excessive temperature (danger d'explosion).

Hazardous decomposition products : CO, HCl and NO_x

11. TOXICOLOGICAL INFORMATIONS

Acute toxicity : only if PETN is swallowed.

Local effects : minor skin irritation in case of contact with PETN.

12. ECOLOGICAL INFORMATIONS

Mobility : not soluble in water.

13. DISPOSAL CONSIDERATIONS

Waste from residues : to be eliminated in accordance to regulations in force in concerned country.

Contaminated packaging : to be eliminated in accordance to regulations in force in concerned country.

14. TRANSPORT INFORMATIONS**International regulations:**

name	Flexible detonating cord
ADR/RID	1.1 D
IMDG code	1.1 D, page 1251
IATA-DGR	forbidden

UN classification number : 0065

15. REGULATORY INFORMATION**Classification, labeling :**

Product is classified and labelled according to EC directives or local, state and federal laws, regulations and ordinances.

**Packaging :**

Product is packaged according to the corresponding transport regulations.

Use :

By authorized persons only.

Hazard symbols :

E, danger of explosion

R -phrases :

3

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

S-phrases :

2

Keep out of reach of children.

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This material and his container must be disposed in a safe way.

16. OTHER INFORMATIONS

The informations submitted in this publication are based on our current knowledge and experience. They describe the safety aspects of the product and do not imply any legally binding assurance of certain properties or of suitability for a specific purpose.