

1. Identification of the substance/ preparation and of the company / undertaking

Trade name: F-Cord 10, F-Cord 20, E-Cord 5

Use of the preparation: Initiation device, detonating cord

Manufacturer: OY FORCIT AB
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 FINLAND

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2. Hazards identification

Classification of mixture: E; R3

Hazards: Extreme risk of explosion by shock, friction, fire or other sources of ignition. If used and handled properly, no known hazards to health or environment.

3. Composition and information on ingredients

Definition: Detonating cord. PETN (Pentaerythritol tetranitrate) explosive core, covered with woven polypropen thread and plastic

Hazardous ingredients: PETN (Pentaerythritol tetranitrate)

Name of ingredient:	Content :	CAS-#:	Code letters; R-phrases:
PETN	-	78-11-5	E; R3

4. First aid measures

Inhalation: Medical help necessary in case of symptoms, e.g. irritation of the respiratory tract, which are directly related to the inhalation of dust, vapours or combustion gases.

Skin: Wash off with water.

Eyes: Rinse with plenty of water, consult a doctor if necessary.

Ingestion: Flush mouth with plenty of water; consult a doctor.

5. Fire fighting measures

General:	Fight adjacent fire with all available means to prevent fire from reaching the product. If fire is about to reach the product or the product is burning: Do not try to extinguish, risk of explosion. Immediately evacuate danger zone and warn neighborhood announcing risk of explosion.
Special exposure hazards in a fire:	In case of fire or heat toxic/harmful gases, vapours and pyrolysis products may be formed of the substance, e.g. nitrogen oxides (nitrous gases) and Carbon monoxide. Explosion hazard. Danger of toxic lung oedema formation.

6. Accidental release measures

Personal precautions:	Not relevant.
Environmental precautions:	Not relevant.
Methods for cleaning up:	Collect scattered products by hand or with suitable non-sparking tools. Dispose of as required by the authorities.

7. Handling and storage

Handling:	Keep away from heat and ignition sources. Do not smoke. Avoid mechanical stress and use non-sparking tools.
Storage:	Keep articles dry, cool and locked up.
Special measures:	National regulations must be followed with handling and storage.

8. Exposure controls / personal protection

Limit values for occupational safety:	Not relevant.
Protection from exposure:	Always wash hands before breaks and at the end of work.

9. Physical and chemical properties

Physical state:	Plastic coated cord, with PETN core
Colour:	White (powder), plastic coating yellow (10), white (20) or red (5)
Odor:	Odorless
Melting point:	Approx. 140 °C (PETN)
Thermal decomposition:	Approx. 200 °C (PETN)
Risk of explosion:	Strong shock, friction or heating, especially >200 °C, in a non-open space.
Relative density:	1,77 g/cm ³ (PETN crystals)
Solubility:	Water-solubility: nonsoluble; Fat-solubility: dissolves easily to acetone (PETN)

10. Stability and reactivity

Conditions to avoid:	Risk of explosion by shock, friction, fire or other sources of ignition.
Materials to avoid:	Not relevant.
Hazardous decomposition products:	In a fire carbon monoxide and nitrogen oxides (nitrous gases).

11. Toxicological information

Empirical data on effects on humans:	If used and handled properly, no known hazards to health.
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12. Ecological information

Ecotoxicity:	If used and handled properly, no known hazards to environment.
Mobility:	Not mobile.
Degradability:	Almost no decomposition.
Bioaccumulation:	Does not accumulate.

13. Disposal considerations

Disposal: Waste and explosive tainted containers must be disposed of only in accordance with national regulations. Uncleaned empty containers are to be handled in the same way as the ones containing the products.

14. Transport information

UN - number: 0065

Packaging group: None

Packaging code: P139

ADR/RID - class: 1

Classification code: 1.1D

Proper shipping name: Cord, Detonating (+ trade name, see paragraph 1)

IMDG - class: 1.1D

EMS - number: F-B, S-Y

ICAO/IATA - class: Air transport prohibited

15. Regulatory information

Labeling: The package is labeled as required by the Finnish Ministry of Communications.

Other regulations: Products should be handled only by authorized persons and according to the specific national regulations for handling explosives.

16. Other information

R-phrases:	R3: Extreme risk of explosion by shock, friction, fire or other sources of ignition
Information on usage:	If the product is used for purposes other than specified in the product information sheet, its suitability must be checked from the technical customer support of OY Forcit AB.
Further information:	<p>Technical product information sheet is available from OY Forcit AB. (other additional information www.forcit.fi)</p> <p>The information contained is based on the present state of our knowledge. It does not represent any guarantee with regard to product properties or their suitability for particular uses. Because the use of this information and instructions or the conditions of use of the product are not at our control, it is the users duty to specify the circumstances for the safe use of the product.</p>