

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name**

Cordtex™ 6N, 10N, 12N, 20N, 40N, 80N, 100N

**Product no.**

-

**REACH registration number**

01-2119557827-23

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture**

SU2a - Mining (without offshore industries)

**Uses advised against**

-

The full text of any mentioned and identified use categories are given in section 16

### 1.3. Details of the supplier of the safety data sheet

**Company and address**

Orica UK Limited	Dexploc A/S
101 Dalton Avenue	Smedeland 7
Birchwood Park	DK – 2600 Glostrup
Warrington	Denmark
CHESHIRE WA3 6YF	
United Kingdom	
Tel. +44 1257 256100	+ 45 43 45 15 38

**Contact person**

sds.emea@orica.com / info@dexploc.com

**E-mail**

sds.emea@orica.com / info@dexploc.com

**SDS date**

2017-11-02 / 01-05-2021

**SDS Version**

1.0

### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Expl. 1.1; H201

See full text of H-phrases in section 16.

### 2.2. Label elements

**Hazard pictogram(s)****Signal word**

Danger

**Hazard statement(s)**

Explosive; mass explosion hazard. (H201)

**Safety statement(s)**

General	-
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210). Do not subject to grinding/shock/friction. (P250). Wear protective gloves/protective clothing/eye protection/face protection. (P280).
Response	Explosion risk in case of fire. (P372). DO NOT fight fire when fire reaches explosives. (P373). In case of fire: Evacuate area. (P370+P380).
Storage	-
Disposal	-

**Identity of the substances primarily responsible for the major health hazards**

PETN. Index-no.: 603-035-00-5

**2.3. Other hazards**

The used P.E.T.N. inside of the detonating cords is classified under CLP Regulation as an unstable explosive (Unst. Expl; H200). In case of an accidental release, the spillage must be removed with necessary prudence and care.

**Additional labelling**

-

**Additional warnings**

-

**VOC**

-

**SECTION 3: Composition/information on ingredients****3.1/3.2. Substances/Mixtures**

NAME:	PETN
IDENTIFICATION NOS.:	CAS-no: 78-11-5 EC-no: 201-084-3 REACH-no: 01-2119557827-23 Index-no: 603-035-00-5
CONTENT:	95-100%
CLP CLASSIFICATION:	Unst. Expl. H200

(\*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

**Other information**

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**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

**Inhalation**

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still. If breathing is irregular or stopped, administer artificial respiration.

**Skin contact**

Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

**Eye contact**

Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure to flush under the upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

**Ingestion**

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

**Burns**

Rinse with water until the pain stops then continue to rinse for a further 30 minutes.

**4.2. Most important symptoms and effects, both acute and delayed**

Nothing special

**4.3. Indication of any immediate medical attention and special treatment needed**

Nothing special

**Information to medics**

Bring this safety data sheet.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

DO NOT attempt firefighting, risk of explosion.

**5.2. Special hazards arising from the substance or mixture**

The product is an explosive. In case of fire, the following products may be liberated: Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Restrict the number of action force members in the hazard area. Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Measures in case of adjacent fire (Fire has not yet reached product): Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.

Measures in case of product fire (Fire has just reached the product or is about to reach it): No fire-fighting attempts, risk of explosion. Immediately evacuate danger zone and seek safe cover.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: Avoid contact with the substance. Wear suitable protective equipment before handling. Follow emergency procedures. Evacuate the danger area and notify your supervisor. Ask for assistance from a competent person.

For emergency responders: Close off the hazard area. Ask for assistance from a competent person.

**6.2. Environmental precautions**

No specific requirements.

**6.3. Methods and material for containment and cleaning up**

End of unused detonating cord should be kept sealed.

**6.4. Reference to other sections**

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Only to be handled by authorised persons. The explosives must be under supervision and kept away from unauthorised persons. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not subject to grinding, shock, friction. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed outside of the workplace. Wash hands before breaks and after work.

**7.2. Conditions for safe storage, including any incompatibilities**

According to EC-Regulation 2015/830

Store in original packaging if possible. Explosives and explosive articles should be stored in accordance with the licence issued by the relevant national authority. Store under cool conditions. Store under dry conditions. Stable under normal storage conditions. Maximum storage quantity should be agreed with national authorities. Store in a well-ventilated place. Store in a closed container.

#### Storage temperature

-20°C - 50°C

#### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### OEL

Nitrogen monoxide

Long-term exposure limit (8-hour TWA reference period): 25 ppm | 31 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 35 ppm | 44 mg/m<sup>3</sup>

Carbon monoxide

Long-term exposure limit (8-hour TWA reference period): 30 ppm | 35 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 200 ppm | 232 mg/m<sup>3</sup>

Carbon dioxide

Long-term exposure limit (8-hour TWA reference period): 5000 ppm | 9150 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 15000 ppm | 27400 mg/m<sup>3</sup>

#### DNEL / PNEC

DNEL (PETN): 220.4 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

PNEC (PETN): 0.3 mg/l

Exposure: Freshwater

### 8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

#### General recommendations

Observe general occupational hygiene standards.

End of unused detonating cord should be kept sealed.

#### Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

#### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

#### Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

#### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

#### Measures to avoid environmental exposure

No specific requirements.

#### Individual protection measures, such as personal protective equipment



#### Generally

Use only CE marked protective equipment.

#### Respiratory Equipment

No specific requirements.

#### Skin protection

No specific requirements.

According to EC-Regulation 2015/830

### Hand protection

Suitable material: NBR (nitrile rubber), EN 388.

### Eye protection

Eye glasses with side protection, EN 166.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form	Solid
Colour	White
Odour	None
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	1.773 (20°C)

### Phase changes

Melting point (°C)	140,5
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	>164
Evaporation rate (n-butylacetate = 100)	No data available.

### Data on fire and explosion hazards

Flash point (°C)	No data available.
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	Explosive
Oxidising properties	No data available.

### Solubility

Solubility in water	Insoluble
n-octanol/water coefficient	2.38

### 9.2. Other information

Solubility in fat (g/L)	No data available.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Product is an explosive.

### 10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

### 10.3. Possibility of hazardous reactions

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

### 10.4. Conditions to avoid

Avoid static electricity.  
Mechanical influences (e.g. shock, pressure, impact, friction). Fire, sparks or other ignition sources.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Substance	Species	Test	Route of exposure	Result
PETN	Rat	LD50	Oral	2500 mg/kg

#### Skin corrosion/irritation

No data available.

According to EC-Regulation 2015/830

**Serious eye damage/irritation**

No data available.

**Respiratory or skin sensitisation**

No data available.

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

No data available.

**Reproductive toxicity**

No data available.

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**Long term effects**

Nothing special

**SECTION 12: Ecological information**

**12.1. Toxicity**

Substance	Species	Test	Duration	Result
PETN	Fish	LC50	96h	926 mg/l
PETN	Daphnia	EC50	48h	292 mg/l

**12.2. Persistence and degradability**

Substance	Biodegradability	Test	Result
No data available.			

**12.3. Bioaccumulative potential**

Substance	Potential bioaccumulation	LogPow	BCF
PETN	No	2,38	No data available

**12.4. Mobility in soil**

PETN: Log Koc= 1,963122, Calculated from LogPow (High mobility potential.).

**12.5. Results of PBT and vPvB assessment**

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

**12.6. Other adverse effects**

Nothing special

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Product is covered by the regulations on hazardous waste.

Burn under supervision of an expert at a government-approved explosive burning ground or destroy, by detonation in boreholes, in accordance with applicable local, provincial and federal laws.

**Waste**

EWC code	
16 04 03*	other waste explosives

**Specific labelling**

-

**Contaminated packing**

Contaminated packaging must be disposed of similarly to the product.

**SECTION 14: Transport information**

**14.1 – 14.4**

This product is within scope of the regulations of transport of dangerous goods.

**ADR/RID**

According to EC-Regulation 2015/830

<b>14.1. UN number</b>	0065
<b>14.2. UN proper shipping name</b>	CORD, DETONATING
<b>14.3. Transport hazard class(es)</b>	1.1D
<b>14.4. Packing group</b>	II
<b>Notes</b>	-
<b>Tunnel restriction code</b>	B1000C

#### IMDG

<b>UN-no.</b>	0065
<b>Proper Shipping Name</b>	CORD, DETONATING
<b>Class</b>	1.1D
<b>PG*</b>	II
<b>EmS</b>	F-B, S-X
<b>MP**</b>	No
<b>Hazardous constituent</b>	-

#### IATA/ICAO

<b>UN-no.</b>	0065
<b>Proper Shipping Name</b>	CORD, DETONATING
<b>Class</b>	1.1D
<b>PG*</b>	II

#### 14.5. Environmental hazards

-

#### 14.6. Special precautions for user

Product is an explosive.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

(\*) Packing group

(\*\*) Marine pollutant

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

#### Demands for specific education

-

#### Additional information

-

#### Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

EC regulation 1907/2006 (REACH).

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### Full text of H-phrases as mentioned in section 3

H200 - Unstable explosives.

### The full text of identified uses as mentioned in section 1

-

**Additional label elements**

-

**Other**

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of physical hazards has been based on experimental data.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

**The safety data sheet is validated by**

Thomas Lagerström

**Date of last essential change  
(First cipher in SDS version)**

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**Date of last minor change  
(Last cipher in SDS version)**

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