

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

N-10

**Product no.**

-

**REACH registration number**

Not applicable

### 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)

Explosives (PC11)

**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

Acute Tox. 4; H302

Eye Irrit. 2; H319

Aquatic Chronic 3; H412

See full text of H-phrases in section 16.

### 2.2. Label elements

**Hazard pictogram(s)**



**Signal word**

According to EC-Regulation 2015/830

Warning

**Hazard statement(s)**

Harmful if swallowed. (H302)  
 Causes serious eye irritation. (H319)  
 Harmful to aquatic life with long lasting effects. (H412)

**Safety statement(s)**

General -  
 Prevention Avoid release to the environment. (P273).  
 Wear protective gloves/protective clothing/eye protection/face protection. (P280).  
 Response If eye irritation persists: Get medical advice/attention. (P337+P313).  
 Storage -  
 Disposal Dispose of contents/container to an approved waste disposal plant. (P501).

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

Sodium thiocyanate, Sodium nitrite

**2.3. Other hazards**

-

**Additional labelling**

Contact with acids liberates very toxic gas. (EUH032)

**Additional warnings**

-

**VOC**

-

**SECTION 3: Composition/information on ingredients**

**3.1/3.2. Substances/Mixtures**

NAME: Sodium thiocyanate  
 IDENTIFICATION NOS.: CAS-no: 540-72-7 EC-no: 208-754-4 REACH-no: 01-2119543700-47  
 CONTENT: 25-40%  
 CLP CLASSIFICATION: Acute Tox. 4, Eye Irrit. 2, Aquatic Chronic 3  
 H302, H312, H319, H332, H412, EUH032

NAME: Sodium nitrite  
 IDENTIFICATION NOS.: CAS-no: 7632-00-0 EC-no: 231-555-9 REACH-no: 01-2119471836-27 Index-no: 007-010-00-4  
 CONTENT: 15 - <25%  
 CLP CLASSIFICATION: Ox. Sol. 3, Acute Tox. 3, Eye Irrit. 2, Aquatic Acute 1  
 H272, H301, H319, H400 (M-acute = 1)

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

**Other information**

ATEmix(inhale, vapour) > 20  
 ATEmix(dermal) > 2000  
 ATEmix(oral) = 380,952 - 571,428  
 Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 3,6 - 5,4  
 N chronic (CAT 3) Sum = Sum(Ci/(M(chronic)<sup>i</sup>\*25)\*0.1\*10<sup>^</sup>CATi) = > 1 - 1,44  
 N acute (CAT 1) Sum = Sum(Ci/M(acute)<sup>i</sup>\*25) = 0,48 - 0,72

**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 and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.

**Ingestion**

In the case of ingestion, contact a doctor immediately and bring the safety data sheet or label. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

**Burns**

Not applicable

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

**Information to medics**

Bring this safety data sheet.

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

The product is not combustible in its liquid form. Dry residues of the product may be flammable. Water is used as extinguishing media.

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

Residues of the product (encrustations) can react explosively in the event of a fire. In case of fire the following products may be liberated: Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Hydrogen cyanide (Hydrocyanic acid).

**5.3. Advice for firefighters**

No specific requirements.

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

No specific requirements.

**6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

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

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in a container for disposal, according to local regulations. Keep the collected absorbents immersed in water. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

**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**

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment. See section on 'Exposure controls/personal protection' for information on personal protection.

According to EC-Regulation 2015/830

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

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Storage temperature

Avoid temperatures below -20°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

No substances are listed in The Control of Substances Hazardous to Health Regulations with an occupational exposure limit.

#### DNEL / PNEC

DNEL (Sodium nitrite): 2 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - Workers

DNEL (Sodium nitrite): 2 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Sodium thiocyanate): 1.68 mg/kg bw/d

Exposure: Dermal

Duration of Exposure: Long term

DNEL (Sodium thiocyanate): 15 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term

DNEL (Sodium thiocyanate): 3 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term

PNEC (Sodium nitrite): 0.0054 mg/l

Exposure: Freshwater

PNEC (Sodium nitrite): 0.00616 mg/l

Exposure: Marine water

PNEC (Sodium nitrite): 0.0054 mg/l

Exposure: Intermittent release

PNEC (Sodium nitrite): 0.0195 mg/kg

Exposure: Freshwater sediment

PNEC (Sodium nitrite): 0.0223 mg/kg

Exposure: Marine water sediment

PNEC (Sodium nitrite): 0.733 µg/kg

Exposure: Soil

PNEC (Sodium nitrite): 21 mg/l

Exposure: Sewage Treatment Plant

PNEC (Sodium thiocyanate): 0.095 mg/l

Exposure: Freshwater

PNEC (Sodium thiocyanate): 0.0095 mg/l

Exposure: Marine water

PNEC (Sodium thiocyanate): 0.0272 mg/l

Exposure: Intermittent release

PNEC (Sodium thiocyanate): 0.543 mg/kg dwt

Exposure: Freshwater sediment

PNEC (Sodium thiocyanate): 0.0543 mg/kg dwt

Exposure: Marine water sediment

PNEC (Sodium thiocyanate): 6.336 mg/kg dwt

Exposure: Soil

PNEC (Sodium thiocyanate): 30 mg/l

Exposure: Sewage Treatment Plant

### 8.2. Exposure controls

Control is unnecessary if the product is used as intended.

#### General recommendations

Observe general occupational hygiene standards.

#### 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

Occupational exposure limits have not been defined for the substances in this product.

#### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

### 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

Dedicated work clothing should be worn.

### 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	Liquid
Colour	Yellowish
Odour	None
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	1.25-1.29
<b>Phase changes</b>	
Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.
<b>Data on fire and explosion hazards</b>	
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	No data available.
Oxidising properties	Oxidising properties.
<b>Solubility</b>	
Solubility in water	Soluble
n-octanol/water coefficient	No data available.
<b>9.2. Other information</b>	
Solubility in fat (g/L)	No data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with acids, metal salts, reducing agents.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

Contact with acids liberates very toxic gas.

**10.4. Conditions to avoid**

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

**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>), Sulphur oxides, Hydrogen cyanide (Hydrocyanic acid).

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

Substance	Species	Test	Route of exposure	Result
Sodium nitrite	Rat	LD50	Oral	180 mg/kg
Sodium thiocyanate	Rat	LD50	Oral	764 mg/kg
Sodium thiocyanate	Rat	LD50	Dermal	>2000 mg/kg

**Skin corrosion/irritation**

No data available.

**Serious eye damage/irritation**

Causes serious eye irritation.

**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**

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Substance	Species	Test	Duration	Result
Sodium nitrite	Fish	LC50	96h	0.54-26.3 mg/l
Sodium nitrite	Daphnia	LC50	96h	4.93 mg/l
Sodium nitrite	Daphnia	EC50	48h	15.4 mg/l
Sodium nitrite	Algae	EC50	72h	>100 mg/l
Sodium nitrite	Bacteria	EC10	3h	210 mg/l
Sodium nitrite	Bacteria	EC50	48h	421 mg/l
Sodium thiocyanate	Fish	NOEC		1.84 mg/l
Sodium thiocyanate	Fish	LC50		65 mg/l
Sodium thiocyanate	Daphnia	EC50	48h	3.56 mg/l
Sodium thiocyanate	Algae	NOEC	72h	22 mg/l
Sodium thiocyanate	Algae	EC50	72h	116 mg/l
Sodium thiocyanate	Bacteria	NOEC		2 mg/l
Sodium thiocyanate	Bacteria	EC10		8000 mg/l
Sodium thiocyanate	Daphnia	NOEC	21d	1.25 mg/l

**12.2. Persistence and degradability**

Substance	Biodegradability	Test	Result
			No data available.

**12.3. Bioaccumulative potential**

Substance	Potential	LogPow	BCF

Sodium thiocyanate	<b>bioaccumulation</b>		
	No	-2,52	No data available

**12.4. Mobility in soil**

Sodium thiocyanate: Log Koc= -1,917188, Calculated from LogPow ().

**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**

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms. This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Product is covered by the regulations on hazardous waste.

**Waste**

EWC code

06 10 02\* wastes containing dangerous substances

**Specific labelling**

-

**Contaminated packing**

Contaminated packaging must be disposed of similarly to the product.

**SECTION 14: Transport information**

**14.1 – 14.4**

Not dangerous goods according to ADR, IATA and IMDG.

**ADR/RID**

- 14.1. UN number -
- 14.2. UN proper shipping name -
- 14.3. Transport hazard class(es) -
- 14.4. Packing group -
- Notes -
- Tunnel restriction code -

**IMDG**

- UN-no. -
- Proper Shipping Name -
- Class -
- PG\* -
- EmS -
- MP\*\* -
- Hazardous constituent -

**IATA/ICAO**

- UN-no. -
- Proper Shipping Name -
- Class -
- PG\* -

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

**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

-

#### Demands for specific education

-

#### Additional information

-

#### Sources

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

H272 - May intensify fire; oxidiser.

H301 - Toxic if swallowed.

H302 - Harmful if swallowed.

H312 - Harmful in contact with skin.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H400 - Very toxic to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

EUH032 - Contact with acids liberates very toxic gas.

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

PC11 = Explosives

### 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 health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

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)

-

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

-





According to EC-Regulation 2015/830

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