

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name** 

**NSP 711** 

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

SU19 - Building and construction work

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 82 12 12 12, 24 h service). See section 4 "First aid

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Expl. 1.1; H201

Acute Tox. 4; H302

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 shock/grinding/friction. (P250).

Wear protective clothing/protective gloves/eye protection/face protection. (P280).

Explosion risk in case of fire. (P372). Response

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

2,3-Dimethyl-2,3-dinitrobutane, .

### 2.3. Other hazards

# **Additional labelling**

### Additional warnings

VOC

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

### 3.1/3.2. Substances/Mixtures

NAME: **PFTN** 

IDENTIFICATION NOS.: CAS-no: 78-11-5 EC-no: 201-084-3 REACH-no: 01-2119557827-23

CONTENT: > 90% CLP CLASSIFICATION: Unst. Expl.

H200

Distillates (petroleum), solvent-refined heavy paraffinic **IDENTIFICATION NOS.:** 

CAS-no: 64741-88-4 EC-no: 265-090-8 REACH-no:

01-2119488706-23 < 10% CONTENT:

CLP CLASSIFICATION: NA

2.3-Dimethyl-2.3-dinitrobutane NAMF:

**IDENTIFICATION NOS.:** CAS-no: 3964-18-9 EC-no: 223-569-9 REACH-no: -

CONTENT: ≤ 1%

CLP CLASSIFICATION: Acute Tox. 1 H300

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

#### Other information

ATEmix(oral) = 444,448 - 666,672

# **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

Bring the person into fresh air and stay with him.

#### 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

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**

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 (NOX), Carbon monoxide (CO), Carbon dioxide (CO2).

### 5.3. Advice for firefighters

DO NOT attempt firefighting, risk of explosion. Immediately evacuate the danger zone and seek safe cover. Restrict the number of emergency responders in the hazard area. Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. Do not allow to enter drains or water courses.

### **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

Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers. 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

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

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.

## Storage temperature

No data available.

# 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 | 30 mg/m³ Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Nitrogen dioxide

Long-term exposure limit (8-hour TWA reference period): 2 ppm | 4 mg/m³ Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Carbon monoxide

Long-term exposure limit (8-hour TWA reference period): 25 ppm | 29 mg/m³ Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Carbon dioxide

Long-term exposure limit (8-hour TWA reference period): 5000 ppm | 9000 mg/m³ Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Dust (inhalable)

Long-term exposure limit (8-hour TWA reference period): - ppm | 10 mg/m³

# DNEL / PNEC

DNEL (PETN): 220.4 mg/m3

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.

# **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**

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 Solid
Colour Yellowish
Odour None

Odour threshold (ppm)

pH

No data available.

Phase changes

Melting point (°C)

Boiling point (°C)

Vapour pressure

Decomposition temperature (°C)

Evaporation rate (n-butylacetate = 100)

No data available.

No data available.

No data available.

No data available.

Data on fire and explosion hazards

Flash point (°C)

Ignition (°C)

Auto flammability (°C)

Explosion limits (% v/v)

Explosive properties

No data available.

No data available.

No data available.

No data available.

**Solubility** 

Solubility in water Insoluble

n-octanol/water coefficient No data available.

9.2. Other information

Solubility in fat (g/L) No data available.

## **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 (NOX), Carbon monoxide (CO), Carbon dioxide (CO2).

# **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.

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
 96 h
 926 mg/l

 PETN
 Daphnia
 EC50
 48 h
 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

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# 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

**14.1. UN number** 0084

14.2. UN proper shipping name EXPLOSIVE, BLASTING, TYPE D

14.3. Transport hazard class(es)
14.4. Packing group II
Notes Tunnel restriction code B1000C

**IMDG** 

UN-no. 0084

Proper Shipping Name EXPLOSIVE, BLASTING, TYPE D

 Class
 1.1D

 PG\*
 II

 EmS
 F-B, S-X

 MP\*\*
 No

 Hazardous constituent

IATA/ICAO

**UN-no.** 0084

Proper Shipping Name EXPLOSIVE, BLASTING, TYPE D

Class 1.1D PG\*

# 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.

Arbejdstilsynets bekendtgørelse nr. 507 af 17. maj 2011 om grænseværdier for stoffer og materialer med senere ændringer.

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.

H300 - Fatal if swallowed.

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.

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)

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)

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