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## Nitrogen (refrigerated)

SDS\_089R\_CLP



# **Warning**



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

**Product identifier** 

Trade name : Nitrogen (refrigerated)
SDS Nr : SDS\_089R\_CLP
Chemical description : Nitrogen (refrigerated)

CAS No :007727-37-9 EC No :231-783-9 Index No :---

Chemical formula : N2

Registration-No. : Listed in Annex IV / V REACH, exempted from registration.

Use : Industrial and professional. Perform risk assessment prior to use.

Company identification :

E-Mail address (competent person): : Emergency telephone number :

## 2 Hazards identification

## Classification of the substance or mixture

Hazard Class and Category Code Regulation EC 1272/2008 (CLP)

• Physical hazards : Gases under pressure - Refrigerated liquefied gas - Warning (H281)

Classification EC 67/548 or EC 1999/ : Not included in Annex VI.

45 Not classified as dangerous preparation/substance.

No EC labelling required.

## Label elements

Labelling Regulation EC 1272/2008 (CLP)

· Hazard pictograms



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## 2 Hazards identification (continued)

Hazard pictograms codeSignal wordGHS04Warning

• Hazard statements : H281 : Contains refrigerated gas; may cause cryogenic burns or injury.

Precautionary statements

- **Prevention** : P282 : Wear cold insulating gloves/face shield/eye protection.

- Response : P336+P315 : Thaw frosted parts with lukewarm water. Do no rub affected area. Get

immediate medical advice / attention.

- Storage : P403 : Store in a well-ventilated place.

Labelling EC 67/548 or EC 1999/45

Symbol(s) : None.
R Phrase(s) : None.
S Phrase(s) : None.

Other hazards

Other hazards : Asphyxiant in high concentrations.

## 3 Composition/information on ingredients

Substance / Preparation : Substance.

 Substance name
 Contents
 CAS No
 EC No
 Index No
 Registration no
 Classification

 Nitrogen (refrigerated)
 : 100 %
 7727-37-9
 231-783-9
 --- NOTE 1
 Press. Gas (H281) Press. Gas (H281) Press. Gas (H281)

Contains no other components or impurities which will influence the classification of the product.

Note 1: Listed in Annex IV / V REACH, exempted from registration.

Note 2: Registration deadline not expired. Full text of R-phrases see chapter 16

#### 4 First aid measures

First aid measures

- Inhalation : In high concentrations may cause asphyxiation. Symptoms may include loss of

mobility/consciousness. Victim may not be aware of asphyxiation.

Remove victim to uncontaminated area wearing self contained breathing

apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if

breathing stopped.

- Skin/eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.

In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing.

Obtain medical assistance.

- Ingestion : Ingestion is not considered a potential route of exposure.

## 5 Fire-fighting measures

Specific hazards : Exposure to fire may cause containers to rupture/explode.

**Hazardous combustion products** 

**Extinguishing media** 

: None.

- Suitable extinguishing media : All known extinguishants can be used.

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## 5 Fire-fighting measures (continued)

Specific methods : If possible, stop flow of product.

> Move away from the container and cool with water from a protected position. If leaking do not spray water onto container. Water surrounding area (from

protected position) to contain fire.

fighters

Special protective equipment for fire : In confined space use self-contained breathing apparatus.

## 6 Accidental release measures

Personal precautions : Evacuate area.

Use protective clothing.

Wear self-contained breathing apparatus when entering area unless atmosphere is

proved to be safe.

Ensure adequate air ventilation.

**Environmental precautions** : Try to stop release.

Prevent from entering sewers, basements and workpits, or any place where its

accumulation can be dangerous.

Clean up methods : Ventilate area.

#### 7 Handling and storage

**Storage** 

: Suck back of water into the container must be prevented. Handling

Do not allow backfeed into the container.

Use only properly specified equipment which is suitable for this product, its supply

pressure and temperature. Contact your gas supplier if in doubt.

Refer to supplier's container handling instructions. : Keep container below 50°C in a well ventilated place.

## 8 Exposure controls/personal protection

: Ensure adequate ventilation. Personal protection

Protect eyes, face and skin from liquid splashes.

## 9 Physical and chemical properties

Physical state at 20 °C : Gas.

: Colourless liquid. Colour

Odour : No odour warning properties.

: 28 Molecular weight Melting point [°C] : -210 : -196 Boiling point [°C] Critical temperature [°C] : -147

Vapour pressure [20°C] : Not applicable.

: 0.97 Relative density, gas (air=1) Relative density, liquid (water=1) : 0.8 Solubility in water [mg/l] : 20

Other data : Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or

below ground level.

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## 10 Stability and reactivity

Hazardous decomposition products : None.

Chemical stability : Stable under normal conditions.

#### 11 Toxicological information

**Toxicity information**: No known toxicological effects from this product.

## 12 Ecological information

**Ecological effects information**: Can cause frost damage to vegetation.

#### 13 Disposal considerations

General : Do not discharge into any place where its accumulation could be dangerous.

Contact supplier if guidance is required.

#### 14 Transport information

UN number : 1977

Labelling ADR, IMDG, IATA



: 2.2 : Non flammable, non toxic gas.

## **Land transport**

ADR/RID

H.l. nr : 22

UN proper shipping name : NITROGEN, REFRIGERATED LIQUID

Transport hazard class(es) : 2
- ADR/RID Classification code : 3 A
- Packing Instruction(s) - General : P203

- Tunnel Restriction : C/E Tank carriage: Passage forbidden through tunnels of category C, D and E;

Other carriage: Passage forbidden through tunnels of category E

## Sea transport

- IMO-IMDG code

• Proper shipping name : NITROGEN, REFRIGERATED LIQUID

Class : 2.2
 IMO Packing group : P203
 Emergency Schedule (EmS) - Fire : F-C
 Emergency Schedule (EmS) - : S-V

**Spillage** 

- Instructions - Packing : P203

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#### 14 Transport information (continued)

#### Air transport

- ICAO/IATA

: NITROGEN, REFRIGERATED LIQUID - Proper shipping name

 Class : 2.2 Passenger and Cargo Aircraft - Packing instruction : 202 Cargo Aircraft only - Packing instruction : 202

Avoid transport on vehicles where the load space is not separated from the driver's compartment.

Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.

Before transporting product containers:

- Ensure that containers are firmly secured.
- Ensure cylinder valve is closed and not leaking.
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.
- Ensure there is adequate ventilation.
- Compliance with applicable regulations.

#### 15 Regulatory information

Safety, health and environmental

regulations/legislation specific for the

substance or mixture

: Not covered. Seveso regulation 96/82/EC

: Ensure all national/local regulations are observed.

#### 16 Other information

May cause frostbite.

Keep container in a well-ventilated place.

Do not breathe the gas.

Asphyxiant in high concentrations.

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

**DISCLAIMER OF LIABILITY** 

: Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

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