



# MATERIAL SAFETY DATA SHEET

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Version : 4

Date : 26/4/2011

Supersedes : 15/10/2007

## COMPRESSED NITROGEN

102881

### 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1. Product identifier

Product name : COMPRESSED NITROGEN  
Common chemical name : Nitrogen  
CAS nr : 7727-37-9  
EC Number : 231-783-9  
REACH registration number : No information available

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

1.2.1 Relevant identified uses See technical instructions

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

Name : DEHON SERVICE  
Address : 26, Avenue du Petit Parc  
94683 VINCENNES cedex  
FRANCE

Telephone number : +33 (0) 1 43 98 75 00

Telefax number : +33 (0) 1 43 98 21 51

e-mail : ContactFDS@dehon.com

#### 1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER (24h/24) : + 33 (0) 1 72 11 00 03  
Anti-poison Center : INRS/ORFILA (France) : +33 (0) 1 45 42 59 59  
Anti-poison Centre (Belgium) : +32 70 245 245  
Anti-poison Centre (Netherlands) : +31 30 274 8888  
Anti-poison Centre (Spain) : +34 91 562 04 20  
Poisons Information Centre (Hungary) : +36 80 201 199  
Anti-poison Centre (United Kingdom) : +44 870 600 6266

### 2 HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### 2.1.1 CLP classification :

• Physical hazards Gases under pressure - Compressed gas (Press. Gas) ; H280

#### 2.2. Label elements

##### • Hazard pictograms



##### • Signal words

Warning

##### • Hazard statements

H280 : Contains gas under pressure; may explode if heated.

##### • Precautionary statements :

- Storage

Protect from sunlight. Store in a well-ventilated place.

#### 2.3. Other hazards

Adverse human health effects : In high concentrations may cause asphyxiation.

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### 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance name	Contents	CAS No	EC No	Index No	Classification
Nitrogen	100 %	7727-37-9	231-783-9	----	----- Press. Gas (H280)

### 4 FIRST AID MEASURES

#### 4.1. Description of first aid measures

Inhalation : Move the affected person away from the contaminated area and into the fresh air  
If breathing stops, give artificial respiration  
Make the affected person rest and keep at warm  
Call a doctor

Skin contact : Not specifically applicable

Eye contact : Not specifically applicable

Ingestion : Not specifically applicable (gas)

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

Acute symptoms : At high concentrations:  
Dizziness  
Headaches  
Loss of consciousness.  
Anoxia (asphyxia).

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

-

### 5 FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media : All extinguishing agents can be used

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

Specific hazards : Prolonged exposure to fire may cause containers to rupture/explode

#### 5.3. Advice for fire-fighters

Specific fire fighting methods : If possible, stop flow of product.  
Cool down the containers exposed to heat with a water spray  
Spray from a distance to keep far away from any possible explosion

Protection of fire-fighters : Self-contained breathing apparatus  
Complete protective clothing

### 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures Do not attempt to take action without suitable protective equipment  
Ventilate spillage area  
Prevent the product from entering cellars, basements or pits  
Stop the leak.  
Evacuate the danger area.

6.2. Environmental precautions

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### 6 ACCIDENTAL RELEASE MEASURES (continued)

- 6.3. Methods and material for containment and cleaning up Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).
- 6.4 Reference to other sections For further information refer to section 8 "Exposure controls/personal protection"

### 7 HANDLING AND STORAGE

- 7.1. Precautions for safe handling
- Precautions : Prevent suck back of water into the container.
- Safe handling advice : Handle and open the container with care.  
Comply with instructions for use (refer to technical sheet).
- Industrial hygiene : Do not drink, eat or smoke in the workplace
- 7.2. Conditions for safe storage, including any incompatibilities
- Storage conditions :
- Recommended : Store :  
- in a cool, well-ventilated area  
- at temperature not exceeding 50 °C
- Packaging materials :
- Recommended : Original packaging
- 7.3. Specific end use(s) -

### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1. Control parameters
- Engineering measures : Ensure good ventilation of the work station
- 8.2. Exposure controls
- Personal protection :
- Respiratory protection : In a confined area : Self-contained breathing apparatus
- Hand protection : Protective gloves
- Eye protection : Safety goggles

### 9 PHYSICAL AND CHEMICAL PROPERTIES

- 9.1. Information on basic physical and chemical properties
- Physical state : Compressed gas
- Colour : Colourless
- Odour : Odourless.
- Olfactory level : No data
- pH value : Not applicable
- Melting point : - 210 °C
- Boiling point : - 196 °C
- Critical temperature : - 147 °C
- Flash point : Not applicable

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### 9 PHYSICAL AND CHEMICAL PROPERTIES (continued)

Evaporation rate :	No data
Flammability (solid, gas) :	Non flammable.
Flammability limits in air :	Not applicable
Vapour pressure :	No data
Relative density, liquid (water=1) :	0,8
Solubility :	
-in water :	20 mg/l
Octanol/water partition coefficient :	No data
Auto-ignition temperature :	No data Not applicable
Decomposition point :	No data
Viscosity :	Not applicable
Propriétés explosives :	Not explosive material according to EC criteria.
Oxidizing properties :	Non oxidizing material according to EC criteria
9.2. Other information	

### 10 STABILITY AND REACTIVITY

10.1. Reactivity	-
10.2. Chemical stability	Stable at ambient temperature and under normal conditions of use
10.3. Possibility of hazardous reactions	-
10.4. Conditions to avoid	-
10.5. Incompatible materials	-
10.6. Hazardous decomposition products	-

### 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects	No specific data
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### 12 ECOLOGICAL INFORMATION

12.1. Toxicity	No known ecological damage caused by this product.
12.2. Persistence and degradability	-
12.3. Bioaccumulative potential	-
12.4. Mobility in soil	-
12.5. Results of PBT and vPvB assessment	-
12.6. Other adverse effects	-

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### 13 DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

##### WASTE FROM PRODUCT :

Destruction/Disposal : Dispose of in accordance with relevant local regulations

##### CONTAMINATED PACKAGING :

Destruction/Disposal : Dispose of at an licensed site

NOTE : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal

### 14 TRANSPORT INFORMATION

#### INTERNATIONAL REGULATIONS :

14.1. UN number 1066  
14.2. UN proper shipping name NITROGEN, COMPRESSED  
14.3. Transport hazard class(es)  
Rail/road (RID/ADR) : Class : 2  
Sea transport : Class : 2.2  
Air transport (OACI/IATA) : Class : 2.2  
Hazard Label(s) : 2.2



14.4. Packing group Not applicable  
14.5. Environmental hazards Not classified as dangerous to the aquatic environment  
Marine pollutant : NO

#### 14.6. Special precautions for user

Rail/road (RID/ADR) : Classification code : 1A  
Hazard identification number : 20  
Tunnel restriction code : (E)Sea transport : EmS Nr : F-C, S-V  
Segregation group : -Air transport (OACI/IATA) : Cargo aircraft:  
Packing instruction: 200  
Quantity: 150 kg  
Passenger aircraft:  
Packing instruction: 200  
Quantity: 75 kg

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

NOTE : The above regulatory prescriptions are those valid on the date of publication of this sheet  
However, given the possible evolution of transport regulations for hazardous materials, in case the present sheet is dating back to more than 12 months ago, it would be advisable to check their validity with your commercial agency

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### 15 REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture    Ensure all national/local regulations are observed.
- 15.2. Chemical Safety Assessment    -

### 16 OTHER INFORMATION

- Further information:    Product for industrial use only  
For more information regarding the use of this product, please refer to our technical information or contact the sales department in your region  
This safety data sheet has been written in conformity with the regulation (UE) 453/2010.
- Text of H-Phrases in § 3    H280 : Contains gas under pressure; may explode if heated.
- \* Update :    All chapters have been modified since the previous version.

This sheet complements the technical sheets but does not replace them. The information given is based on our knowledge of the product, at the time of publication. It is given in good faith.  
Besides, the attention of the user is drawn to the possible risks incurred by using the product for any other use than that for which it was intended.

In no way does this exempt the user from knowing and applying all the regulations controlling his activity. He alone will take on the responsibility for taking the precautions involved by the use of the product.  
The aim of all the mandatory regulations mentioned is just to help the user to fulfil his obligations regarding the use of hazardous products.

This information must not be considered exhaustive. It does not exempt the user from ensuring that other obligations than those mentioned could apply, related to the storage and use of the product, this being his sole responsibility.

**End of document**

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