

NITROGEN (compressed gas)



2.2 Non-flammable, not toxic

Danger label



1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND COMPANY

Substance:**Chemical name**

Nitrogen

Data sheet:

FDS_N2_AMG_Rev. 2_EN

Identification:

Substance; Compressed gas

CAS: 007727-37-9

EC: 231-783-9

Index : -----

Chemical formula:N₂**Annex number:**

Exempted; Listed in Anexa IV / V REACH

Use:

Industrial and Professional

Company name:

Activ Metal Gaz SRL

Company office address:

Eforie Nord, Strada Diamant nr. 8B, Judetul Constanta

Company workshop address:

Constanta, Soseaua Tulcei km5, Judetul Constanta

E-mail (company):

office@gazetehnice.ro

E-mail (FDS responsible person):

victor.petrescu@gazetehnice.ro

Emergency phone numbers:

0752 261 601; 0758 888 805

2. HAZARDS IDENTIFICATION / LABELS

Classification of the substance / mixture

EC 1272/ 2008 (CLP)

- Danger

Gas under pressure - Compressed gas

(H280)

EC 67/548 sau EC 1999/ 45:

This substance is not considered hazardous

Labeling

EC 1272/2008 (CLP)

- Danger label



- **Label code:**
- **Word:**
- **Phrase:**

GHS04

Attention

H280 Gas under pressure. May explode if heated.

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2. HAZARDS IDENTIFICATION / LABELS

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- **Precautionar statements:**
 - **prevention:** -----
 - **response:** -----
 - **storage:** P403 Store in a well-ventilated place

Labeling EC 67/548 sau EC 1999/45

Simbols: Not applicable

R phrases: -----

S phrases: S9 Storage in well-ventilated place

Other hazards

Other hazards: In high concentrations may cause asphyxiation

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Substance

Identification	Concentration	No. CAS	No. EC	Index	Annex No.	Hazard No.
Nitrogen	100%	007727-37-9	231-783-9	-----	Exempted	H280

There are no other components or additional ingredients present which may influence the classification of this product.

Note: Listed in Anexa IV / V REACH - Exempted

4. FIRST AID MEASURES

First aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If necessary provide artificial respiration.

Eye or skin contact: Flush eye or contaminated skin area with plenty of water.

5. FIRE-FIGHTING MEASURES

Specific hazards: If heated a pressure increase will occur and the container may explode.

Hazardous thermal product: Non-flammable gas.

Suitable extinguishing media: This substance can be used as extinguishing media.

Specific protective actions: Shut off flow valve if it can be done without risk.
Use water spray to keep fire-exposed containers cool.
Move containers from fire area if it can be done without risk.

Special protective equipment: Fire-fighters should use a self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Evacuate surrounding areas. Keep unauthorized personnel from entering. Provide adequate ventilation. Wear appropriate respirator if ventilation is inadequate.
Environmental precautions:	Shut off flow of the product. Inform relevant authorities if the product has been released in sewars.
Cleaning measures for contaminated area:	Provide adequate ventilation.

7. HANDLING AND STORAGE

Handling:	Wear appropriate personal protective equipment. Protect cylinders from physical damage. Close valves after each use and when empty.
Storage:	Keep cylinders in well-ventilated places Cylinder temperatures should not exceed 50°C. Cylinders should be stored upright with valve protection in place and firmly secured to prevent falling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective measures:	The personnel should wear gloves and body protective equipment. Use a respirator if a risk assessment indicates this is necessary.
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9 PROPRIETATI FIZICO-CHIMICE

Physical state:	gas (at 20°C)
Color:	colorless
Odor:	odorless
Molecular weight:	28
Melting point: °C	-210
Boiling point: °C	-196
Critical temperature: °C	-147
Relative density (liquid; water=1):	not available
Relative density (gas; air=1):	0,97
Vapor pressure at 20°C:	not available
Solubility in water (mg/l):	20
Auto-ignition temperature: °C	non-flammable
Explosive limits: (% vol in air)	non-flammable
Other data:	gas heavier than air

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10. STABILITY AND REACTIVITY

Stability:	This product is stable.
Conditions to avoid:	Working in closed spaces without adequate personal protective equipment.
Incompatible materials:	-----
Hazardous decomposition products:	Not applicable.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:	Not available.
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12. ECOLOGICAL INFORMATION

Adverse effects:	No known significant effects or critical hazards.
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13. DISPOSAL CONSIDERATIONS

Disposal methods:	The gas will be disposed in atmosphere. The container must be disposed in a safe way via a licensed waste disposal contractor.
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14. TRANSPORT INFORMATION

UN number:	1066
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• Labeling ADR, IMDG, IATA:



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Road and rail transport

ADR / RID	
H.I. no.	20
UN proper shipping name:	Nitrogen, compressed gas
Transport hazard class(es):	2.2
Classification code ADR/RID:	1 A
Filling instructions:	P200; Quantity limitations in some states; See local regulations
Access restrictions:	E - Passage forbidden through tunnels of category E

Shipping

IMO - IMDG	
UN proper shipping name:	Nitrogen, compressed gas
Transport hazard class(es):	2.2
Filling instructions:	P200; Quantity limitations in some states; See local regulations
Emergency program (fire) EmS:	F - C
Emergency program (leaks) EmS:	S - V

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14. TRANSPORT INFORMATION

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Air transport

ICAO/IATA

UN proper shipping name:

Nitrogen, compressed gas

Transport hazard class(es):

2.2

Passanger and Cargo Aircraft:

- filling instructions:

P200; Quantity limitations in some states; See local regulations

Cargo Aircraft Only:

- filling instructions:

P200; Quantity limitations in some states; See local regulations

Special precautions:

Ensure that the persons transporting the products know what to do in case of an accident or spillage and are authorized (if required by local regulations). Always ensure that:

- valves are closed and there are no leaks
- valve have fitted caps or guards
- fire extibguisher are in place
- labeling was done properly

15. REGULATORY INFORMATION

Romanian regulations:

Road transport will respect ADR - Class 2 (gases), Labor law and Technical Prescriptions issued by ISCIR.

16. OTHER INFORMATION

Phrases R / H / S

Risk phrases (R):

Safety phrases (S):

S9 Storage in well-ventilated place

Healty phrases (H):

H280 Gas under pressure. May explode if heated.

Recomandations

The personnel transporting and use this product will be trained. If required by law or regulations all personnel will be authorized. Users must be aware of the risk that can arise by using this product.

This Safety Data Sheet was made according to Annex II of Regulations (EU) no. 1907/2006, modified by Regulations (EU) no. 453/2010 regarding recording, evaluation, authorization and restriction of chemical substances (REACH).

This Safety Data Sheet was made according to EU Regulations and Romanian Laws as a warning and is intended to be interpreted and apply only by trained individuals. This document does not offer commercial insurance. Our company is not responsible for any injury or damage resulting from using this product.