



SAFETY DATA SHEET

NITROGEN (COMPRESSED)

1. Identification of the substance/preparation and company/undertaking

Identification of the substance or preparation

Product name : NITROGEN (COMPRESSED)
Chemical name : nitrogen
Synonyms : nitrogen (dot); nitrogen gas; nitrogen, liquid; In2
Chemical formula : N2

Company/undertaking identification

Manufacturer / Supplier : Yara Industrial AS
 P.O.Box 23 Haugenstua
 N-0915 Oslo
 Norway
 T: +47 24 15 76 00
 F: +47 24 15 75 01

Emergency telephone number : +47 48 005 000

2. Composition/information on ingredients

Substance/preparation : Substance

Ingredient name	CAS number	%	EC number	Classification: Ingredient
nitrogen See section 16 for the full text of the R-phrases declared above.	7727-37-9	100	231-783-9	Not classified.

Occupational exposure limits, if available, are listed in section 8..

3. Hazards identification

The substance is not classified as dangerous according to Directive 67/548/EEC and its amendments.

See section 11 for more detailed information on health effects and symptoms.

4. First-aid measures

Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. In all cases of doubt, or when symptoms persist, seek medical attention.
Ingestion : Not applicable
Skin Contact : Not applicable
Eye contact : Not applicable

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media : No specific data.
Special exposure hazards : Container explosion may occur under fire conditions or when heated.
 Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Hazardous thermal decomposition products : These products are nitrogen oxides (NO, NO₂ etc.).

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6. Accidental release measures

Personal precautions : Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5).

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling : Acts as a simple asphyxiant. Can displace the normal air and cause suffocation from lack of oxygen. Inhalation may cause headaches, dizziness, drowsiness, and nausea. See section 11 for more detailed information on health effects and symptoms.

Storage : Store in a segregated and approved area. Store in original container and secure against falling.

8. Exposure controls/personal protection

Exposure controls

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Possible: supplied-air respirator

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Skin protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical and chemical properties

General information

Appearance

Physical state : Gas. (NORMALLY A COLORLESS GAS: MAY BE A CLEAR COLORLESS LIQUID AT LOW TEMPERATURES. SOLD AS A COMPRESSED GAS OR LIQUID IN STEEL CYLINDERS. GRADES: USP, 99.966%, 99.7%, 99.6%.)

Colour : COLORLESS

Odour : NONE

Important health, safety and environmental information

Boiling point : -195.79°C (-320.4°F)

Melting/freezing point : -209.99°C (-346°F)

Vapour density : 0.97 (Air = 1)

Critical temperature : -146.9°C (-232.4°F)

10. Stability and reactivity

Stability : Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products : These products are nitrogen oxides (NO, NO₂ etc.).

11. Toxicological information

Potential acute health effects

Adverse health effects are considered unlikely, when the product is used according to directions.

12. Ecological information

Adverse effects : The product is not expected to harm the environment when used properly according to directions.




13. Disposal considerations

Methods of disposal : Do not puncture or incinerate container. Dispose of in accordance with all applicable local and national regulations.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC..

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
ADR/RID Class	UN1066	NITROGEN, COMPRESSED	2	-		Hazard identification number 20 Limited quantity LQ1 CEFIC Tremcard 20G1A
IMDG Class	UN1066	NITROGEN, COMPRESSED	2.2	-		Emergency schedules (EmS) F-C, S-V
IATA-DGR Class	UN1066	NITROGEN, COMPRESSED	2.2	-		Passenger and Cargo Aircraft Quantity limitation: 75 kg Cargo Aircraft Only Quantity limitation: 150 kg

15. Regulatory information

EU regulations

Product use : Industrial applications.

Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.

National regulations

Risk phrases : Not regulated.

Carcinogenic class : Not classified.

16. Other information

History

Date of issue : 2005-11-03.

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Version : 2

 Indicates information that has changed from previously issued version.

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Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may represent unknown hazards and should be used with caution. Yara International ASA disclaims any liability for loss or damage resulting from the use of any data, information or recommendations set out in this Safety Data Sheet.

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