

Nitrogen, compressed

 Issue Date:
 16.01.2013

 Last revised date:
 03.04.2020

Version: 1.2

SDS No.: 000010021697 1/12

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

| 1.1 Product identifier                              |  |
|---|--|
| Product name:                                       | Nitrogen, compressed   |
| Trade name:   | BIOGON® N (E941), Nitrogen 3.5 Industrial, Nitrogen 4.0, Nitrogen 4.6<br>Chemical, Nitrogen 4.6 Laser, Nitrogen 4.8, HiQ Nitrogen 5.0, Nitrogen 5.0<br>Instrument, Nitrogen 5.0 Laser, Nitrogen 5.5 Detector, HiQ Nitrogen 6.0,<br>Nitrogen 6.0 Scientific, Nitrogen 7.0 HiQ, Nitrogen VERISEQ® Process,<br>Nitrogen VERISEQ® Research, Nitrogen 2.6 Industrial, Nitrogen 2.6 Industrial<br>NORWAY 200 BAR UNM OFFSHORE, 300 BAR OFFSHORE, 300 BAR UNM<br>OFFSHORE   |
| Additional identification                           |  |
| Chemical name:                                      | Nitrogen   |
| Chemical formula:<br>INDEX No.<br>CAS-No.<br>EC No. | N2<br>-<br>7727-37-9<br>231-783-9  |
| REACH Registration No.                              | Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.  |
| 1.2 Relevant identified uses of the substa          | ance or mixture and uses advised against   |
| Identified uses:                                    | Industrial and professional. Perform risk assessment prior to use.<br>Aerosol propellant. Balance gas for mixtures. Blanketing gas. Calibration gas.<br>Carrier gas. Fire suppressant gas. Food packaging gas. Inerting gas. Inflating<br>tyres. Laboratory use. Laser gas. Pressure head gas, operational assist gas in<br>pressure systems. Process gas. Purge gas. Test gas.<br>Consumer use.<br>Beverage applications. Shielding gas in gas welding.<br>It is the responsibility of the end user to ensure that the product as supplied is<br>suitable for its intended use. |
| Uses advised against                                | Industrial or technical grade is unsuitable for medical and/or food applications or inhalation.  |
| 1.3 Details of the supplier of the safety da        | ata sheet  |
| Supplier  |  |

| suppliel                  |                        |
|---------------------------|------------------------|
| Linde Gas AS              | Telephone: +4723177200 |
| Postboks 13 Nydalen       | ·                      |
| N-0409 Oslo Norway        |                        |
| ·                         |                        |
| E-mail: sds.ren@linde.com |                        |

**1.4 Emergency telephone number:** +47 22 59 13 00 (24h - Giftinformasjonssentralen)



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#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

| Classification according to Regulation (EC) No 1272/2008 as amended. |
|--|
|--|

#### Physical Hazards

Gases under pressure

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

#### 2.2 Label Elements



| Signal Words:              | Warning  |
|----------------------------|--|
| Hazard Statement(s):       | H280: Contains gas under pressure; may explode if heated.  |
| Precautionary Statements   |  |
| Prevention:                | None.  |
| Response:                  | None.  |
| Storage:                   | P403: Store in a well-ventilated place.                    |
| Disposal:                  | None.  |
| Supplemental label informa | <b>tion</b><br>EIGA-As: Asphyxiant in high concentrations. |
| 2.3 Other hazards:         | None.  |



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## SECTION 3: Composition/information on ingredients

#### 3.1 Substances

| Chemical name<br>INDEX No.:<br>CAS-No.:<br>EC No.:<br>REACH Registration No.:<br>Purity:<br>Trade name: | Nitrogen<br>-<br>7727-37-9<br>231-783-9<br>Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from<br>registration.<br>100%<br>The purity of the substance in this section is used for classification only, and does<br>not represent the actual purity of the substance as supplied, for which other<br>documentation should be consulted.<br>BIOGON® N (E941), Nitrogen 3.5 Industrial, Nitrogen 4.0, Nitrogen 4.6 Chemical,<br>Nitrogen 4.6 Laser, Nitrogen 4.8, HiQ Nitrogen 5.0, Nitrogen 5.0 Instrument,<br>Nitrogen 5.0 Laser, Nitrogen 5.5 Detector, HiQ Nitrogen 6.0, Nitrogen 6.0<br>Scientific, Nitrogen 7.0 HiQ, Nitrogen VERISEQ® Process, Nitrogen VERISEQ®<br>Research, Nitrogen 2.6 Industrial, Nitrogen 2.6 Industrial NORWAY 200 BAR UNM<br>OFFSHORE, 300 BAR OFFSHORE, 300 BAR UNM OFFSHORE |
|---|--|
| SECTION 4: First aid measures   |  |
| General:  | 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.   |
| 4.1 Description of first aid measures<br>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.   |
| Eye contact:  | Adverse effects not expected from this product.  |
| Skin Contact:   | Adverse effects not expected from this product.  |
| Ingestion:  | Ingestion is not considered a potential route of exposure.   |
| 4.2 Most important symptoms and effects, both acute and delayed:  | Respiratory arrest.  |
| 4.3 Indication of any immediate med<br>Hazards:   | ical attention and special treatment needed<br>None.   |



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| Treatment:  | None.  |  |
|---|--|--|
| SECTION 5: Firefighting measures                                    |  |  |
| General Fire Hazards:   | Heat may cause the containers to explode.  |  |
| 5.1 Extinguishing media   |  |  |
| Suitable extinguishing media:                                       | Material will not burn. In case of fire in the surroundings: use appropriate extinguishing agent.  |  |
| Unsuitable extinguishing media:                                     | None.  |  |
| 5.2 Special hazards arising from the substance or mixture:          | None.  |  |
| Hazardous Combustion Products:                                      | : None.  |  |
| 5.3 Advice for firefighters<br>Special fire fighting<br>procedures: | In case of fire: Stop leak if safe to do so. Continue water spray from protected position until container stays cool. Use extinguishants to contain the fire. Isolate the source of the fire or let it burn out.   |  |
| Special protective equipment<br>for fire-fighters:                  | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Guideline: EN 469 Protective clothing for firefighters. Performance requirements for protective clothing for firefighting. EN 15090 Footwear for firefighters. EN 659 Protective gloves for firefighters. EN 443 Helmets for fire fighting in buildings and other structures. EN 137 Respiratory protective devices - Self-contained opencircuit compressed air breathing apparatus with full face mask - Requirements, testing, marking. |  |

## SECTION 6: Accidental release measures

| 6.1 Personal precautions,<br>protective equipment and<br>emergency procedures: | Evacuate area. Provide adequate ventilation. Prevent from entering sewers,<br>basements and workpits, or any place where its accumulation can be dangerous.<br>Wear self-contained breathing apparatus when entering area unless atmosphere<br>is proved to be safe. Guideline EN 137 Respiratory protective devices - Self-<br>contained open-circuit compressed air breathing apparatus with full face mask -<br>Requirements, testing, marking. |  |
|--|--|--|
| 6.2 Environmental Precautions:   | Prevent further leakage or spillage if safe to do so.  |  |
| 6.3 Methods and material for containment and cleaning up:                      | Provide adequate ventilation.  |  |
| 6.4 Reference to other sections:   | Refer to sections 8 and 13.  |  |



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## SECTION 7: Handling and storage:

| 7.1 Precautions for safe handling:                                   | Only experienced and properly instructed persons should handle gases under pressure. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Refer to supplier's handling instructions. The substance must be handled in accordance with good industrial hygiene and safety procedures. Protect containers from physical damage; do not drag, roll, slide or drop. Do not remove or deface labels provided by the supplier for the identification of the container contents. When moving containers, even for short distances, use appropriate equipment eg. trolley, hand truck, fork truck etc. Secure cylinders in an upright position at all times, close all valves when not in use. Provide adequate ventilation. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Avoid suckback of water, acid and alkalis. Keep container below 50°C in a well ventilated place. Observe all regulations and local requirements regarding storage of containers. When using do not eat, drink or smoke. Store in accordance with local/regional/national/international regulations. Never use direct flame or electrical heating devices to raise the pressure of a container. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed im a container stand and is ready for use. Damaged valves should be reported immediately to the supplier Close container valve after each use and when empty, even if still connected to equipment. Never attempt to repair or modify container valves or safety relief devices. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Keep container valve outlets clean and free from contaminates particularly oil and water. If user experiences any difficulty operating container valve discontinue use and contact supplier. Never attempt to transfer gases from one container to another. Container valve guards or caps should be in place. |
|--|---|
| 7.2 Conditions for safe storage,<br>including any incompatibilities: | Containers should not be stored in conditions likely to encourage corrosion. Stored containers should be periodically checked for general conditions and leakage. Container valve guards or caps should be in place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible material.  |
| 7.3 Specific end use(s):   | None.   |
| SECTION 8: Exposure controls/pers                                    | sonal protection  |

#### 8.1 Control Parameters

**Occupational Exposure Limits** 

None of the components have assigned exposure limits.



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|   |                          |  |                               |
| 8.2 Exposure contre   | ols                      |  |                               |
| Appropriate en<br>controls:   | gineering                | Consider a work permit system e.g. for maintenance activities. Ensure adequate<br>air ventilation. Provide adequate ventilation, including appropriate local<br>extraction, to ensure that the defined occupational exposure limit is not<br>exceeded. Oxygen detectors should be used when asphyxiating gases may be<br>released. Systems under pressure should be regularly checked for leakages.<br>Preferably use permanent leak tight connections (eg. welded pipes). Do not eat,<br>drink or smoke when using the product. |                               |
| Individual prote  | ection measures,         | such as personal protective equipment  |                               |
| General information: A risk assessment should be conducted and documented in each work ar assess the risks related to the use of the product and to select the PPE th matches the relevant risk. The following recommendations should be conducted breathing apparatus readily available for emergency Personal protective equipment for the body should be selected based or being performed and the risks involved. |                          | t and to select the PPE that<br>mendations should be considered.<br>y available for emergency use.   |                               |
| Eye/face prot   | ection:                  | Wear eye protection to EN 166 when using gase<br>Guideline: EN 166 Personal Eye Protection.  | es.                           |
| Skin protectio<br>Hand Protec   |                          | Wear working gloves while handling containers<br>Guideline: EN 388 Protective gloves against me  |                               |
| Body protec   | tion:                    | No special precautions.  |                               |
| Other:  |                          | Wear safety shoes while handling containers<br>Guideline: ISO 20345 Personal protective equip  | oment - Safety footwear.      |
| Respiratory Pr  | otection:                | Not required.  |                               |
| Thermal hazaı   | ds:                      | No precautionary measures are necessary.   |                               |
| Hygiene meas  | ures:                    | Specific risk management measures are not rec<br>hygiene and safety procedures. Do not eat, drir<br>product.   |                               |
| Environmental controls:   | exposure                 | For waste disposal, see section 13 of the SDS.   |                               |

## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Appearance           |  |
|----------------------|--|
| Physical state:      |  |
| Form:                |  |
| Color:               |  |
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Gas Compressed gas Colorless



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| Odor:                                    | Odorless gas   |
|--|--|
| Odor Threshold:                          | Odor threshold is subjective and is inadequate to warn of over |
|  | exposure.  |
| pH:                                      | Not applicable.  |
| Melting Point:                           | -210,01 °C   |
| Boiling Point:                           | -196 °C  |
| Sublimation Point:                       | Not applicable.  |
| Critical Temp. (°C):                     | -147,0 °C  |
| Flash Point:                             | Not applicable to gases and gas mixtures.                      |
| Evaporation Rate:                        | Not applicable to gases and gas mixtures.                      |
| Flammability (solid, gas):               | This product is not flammable.                                 |
| Flammability Limit - Upper (%):          | Not applicable.  |
| Flammability Limit - Lower (%):          | Not applicable.  |
| Vapor pressure:                          | No reliable data available.                                    |
| Vapor density (air=1):                   | 0,97   |
| Relative density:                        | 0,8  |
| Solubility(ies)                          |  |
| Solubility in Water:                     | 20 mg/l  |
| Partition coefficient (n-octanol/water): | 0,67   |
| Autoignition Temperature:                | Not applicable.  |
| Decomposition Temperature:               | Not known.   |
| Viscosity                                |  |
| Kinematic viscosity:                     | No data available.   |
| Dynamic viscosity:                       | 0,171 mPa.s (10,9 °C)  |
| Explosive properties:                    | Not applicable.  |
| Oxidizing properties:                    | Not applicable.  |
| 9.2 Other information:                   | None.  |
| Molecular weight:                        | 28,01 g/mol (N2)   |

## SECTION 10: Stability and reactivity

| 10.1 Reactivity:                         | No reactivity hazard other than the effects described in sub-section below. |
|--|---|
| 10.2 Chemical Stability:                 | Stable under normal conditions.   |
| 10.3 Possibility of hazardous reactions: | None.   |
| 10.4 Conditions to avoid:                | None.   |



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| 10.5 Incompatible Materials               | <b>s</b> : No reaction with any common materials                                   | s in dry or wet conditions.           |
| 10.6 Hazardous Decomposit<br>Products:    | tion Under normal conditions of storage and should not be produced.                | use, hazardous decomposition products |
| SECTION 11: Toxicological                 | information  |                                       |
| General information:                      | None.  |                                       |
| 11.1 Information on toxicol               | ogical effects   |                                       |
| Acute toxicity - Oral<br>Product          | Based on available data, the classification  | on criteria are not met.              |
| Acute toxicity - Derma<br>Product         | l<br>Based on available data, the classification                                   | on criteria are not met.              |
| Acute toxicity - Inhalat<br>Product       | <b>tion</b><br>Based on available data, the classification                         | on criteria are not met.              |
| Skin Corrosion/Irritatio<br>Product       | on<br>Based on available data, the classification                                  | on criteria are not met.              |
| Serious Eye Damage/E<br>Product           | E <b>ye Irritation</b><br>Based on available data, the classification              | on criteria are not met.              |
| Respiratory or Skin Ser<br>Product        | nsitization<br>Based on available data, the classification                         | on criteria are not met.              |
| Germ Cell Mutagenicit<br>Product          | <b>y</b><br>Based on available data, the classification                            | on criteria are not met.              |
| Carcinogenicity<br>Product                | Based on available data, the classification  | on criteria are not met.              |
| Reproductive toxicity<br>Product          | Based on available data, the classification  | on criteria are not met.              |
| Specific Target Organ 1<br>Product        | <b>Toxicity - Single Exposure</b><br>Based on available data, the classification   | on criteria are not met.              |
| Specific Target Organ 1<br>Product        | <b>Toxicity - Repeated Exposure</b><br>Based on available data, the classification | on criteria are not met.              |



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#### Aspiration Hazard Product

Not applicable to gases and gas mixtures..

## SECTION 12: Ecological information

12.1 Toxicity

| Acute toxicity<br>Product                             | No ecological damage caused by this product.   |
|---|--|
| 12.2 Persistence and Degradability<br>Product         | The substance is naturally occurring.  |
| 12.3 Bioaccumulative potential<br>Product             | The subject product is expected to biodegrade and is not expected to persist for long periods in an aquatic environment. |
| 12.4 Mobility in soil<br>Product                      | The substance is a gas, not applicable.  |
| 12.5 Results of PBT and vPvB<br>assessment<br>Product | Not classified as PBT or vPvB.   |
| 12.6 Other adverse effects:                           | No ecological damage caused by this product.   |
| SECTION 13: Disposal consideration                    | 15   |

#### 13.1 Waste treatment methods

| General information:                      | Do not discharge into any place where its accumulation could be dangerous. Ve<br>o atmosphere in a well ventilated place.  | ent |
|---|--|-----|
| Disposal methods:                         | Refer to the EIGA code of practice (Doc.30 "Disposal of Gases", downloadable at http://www.eiga.org) for more guidance on suitable disposal methods. Dispose of container via supplier only. Discharge, treatment, or disposal may be subject to national, state, or local laws. |     |
| <u>European Waste Codes</u><br>Container: | 16 05 05: Gases in pressure containers other than those mentioned in 16 05 04.   |     |



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## SECTION 14: Transport information

#### ADR

| 14.1 UN Number:<br>14.2 UN Proper Shipp<br>14.3 Transport Hazard<br>Class:<br>Label(s):<br>Hazard No. (ADF<br>Tunnel restrictio<br>14.4 Packing Group:  | l Class(es)<br>?):<br>n code: | UN 1066<br>NITROGEN, COMPRESSED<br>2<br>2.2<br>20<br>(E)<br>-                         |
|---|-------------------------------|---|
| 14.5 Environmental h<br>14.6 Special precautio  |                               | Not applicable<br>–   |
| RID   |                               |   |
| <ul> <li>14.1 UN Number:</li> <li>14.2 UN Proper Shipp</li> <li>14.3 Transport Hazaro<br/>Class:<br/>Label(s):</li> <li>14.4 Packing Group:</li> <li>14.5 Environmental h</li> <li>14.6 Special precaution</li> </ul> | d Class(es)<br>azards:        | UN 1066<br>NITROGEN, COMPRESSED<br>2.2<br>-<br>Not applicable<br>-                    |
| IMDG<br>14.1 UN Number:<br>14.2 UN Proper Shipp<br>14.3 Transport Hazaro<br>Class:<br>Label(s):<br>EmS No.:<br>14.4 Packing Group:<br>14.5 Environmental h<br>14.6 Special precaution                                 | l Class(es)<br>azards:        | UN 1066<br>NITROGEN, COMPRESSED<br>2.2<br>2.2<br>F-C, S-V<br>-<br>Not applicable<br>- |



|                    |            | 5, 1         |                       |
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#### IATA

| 14.1 UN Number:<br>14.2 Proper Shipping Name:<br>14.3 Transport Hazard Class(es):  | UN 1066<br>Nitrogen, compressed |
|--|---------------------------------|
| Class:   | 2.2                             |
| Label(s):  | 2.2                             |
| <ul><li>14.4 Packing Group:</li><li>14.5 Environmental hazards:</li><li>14.6 Special precautions for user:<br/>Other information</li></ul> | –<br>Not applicable<br>–        |
| Passenger and cargo aircraft:  | Allowed.                        |
| Cargo aircraft only:   | Allowed.                        |

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

| the driver's compartment. Ensure vehicle driver is aware of the<br>hazards of the load and knows what to do in the event of an ac-<br>an emergency. Before transporting product containers ensure t<br>are firmly secured. Ensure that the container valve is closed and<br>leaking. Container valve guards or caps should be in place. Ensu<br>adequate air ventilation. |
|---|
|---|

#### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, as amended.: Not applicable

#### National Regulations

|                                  | Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work Directive 89/686/EEC on personal protective equipment Only products that comply with the food regulations (EC) No. 1333/2008 and (EU) No. 231/2012 and are labelled as such may be used as food additives.<br>This Safety Data Sheet has been produced to comply with Regulation (EU) 2015/830. |
|----------------------------------|--|
| 15.2 Chemical safety assessment: | No Chemical Safety Assessment has been carried out.  |

#### SECTION 16: Other information

Revision Information: Not relevant.



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|  |                             |   |  |
| Key literature references and sources for data:                      |                             | Various sources of data have been used in the compilation of this SDS, they include<br>but are not exclusive to:<br>Agency for Toxic Substances and Diseases Registry (ATSDR)<br>(http://www.atsdr.cdc.gov/).<br>European Chemical Agency: Guidance on the Compilation of Safety Data Sheets.<br>European Chemical Agency: Information on Registered Substances<br>http://apps.echa.europa.eu/registered/registered-sub.aspx#search<br>European Industrial Gases Association (EIGA) Doc. 169 Classification and Labelling<br>guide.<br>International Programme on Chemical Safety (http://www.inchem.org/)<br>ISO 10156:2010 Gases and gas mixtures - Determination of fire potential and<br>oxidizing ability for the selection of cylinder valve outlets.<br>Matheson Gas Data Book, 7th Edition.<br>National Institute for Standards and Technology (NIST) Standard Reference Database<br>Number 69.<br>The ESIS (European chemical Substances 5 Information System) platform of the<br>former European Chemicals Bureau (ECB) ESIS (http://ecb.jrc.ec.europa.eu/esis/).<br>The European Chemical Industry Council (CEFIC) ERICards.<br>United States of America's National Library of Medicine's toxicology data network<br>TOXNET (http://toxnet.nlm.nih.gov/index.html) |  |
|  |                             | Threshold Limit Values (TLV) from the America<br>Industrial Hygienists (ACGIH).   | an Conference of Governmental  |
|  |                             | Substance specific information from suppliers<br>Details given in this document are believed to   |  |
| Wording of the H-s   | tatements in se             | ction 2 and 3<br>H280 Contains gas under pressure; r  | may explode if heated.   |
| Classification according to Regulation (EC) No 1272/2008 as amended. |                             |   |  |
|  | Press. Gas Compr. Gas, H280 |   |  |
| Other information:   |                             | Before using this product in any new process<br>compatibility and safety study should be carri-<br>Ensure all national/local regulations are obse<br>taken in the preparation of this document, no<br>from its use can be accepted.   | ed out. Ensure adequate air ventilation.<br>erved. Whilst proper care has been |
| Last revised date:<br>Disclaimer:                                    |                             | 03.04.2020<br>This information is provided without warranty<br>correct. This information should be used to ma<br>the methods to safeguard workers and the en  | ake an independent determination of  |