



NİTROGEN

Safety Data Sheet

"Registration, Evaluation, Authorization of Chemicals and Regulation on Restriction" (23.06.2017-30105 (Repeated))
Official Gazette)

Date of issue: 05/03/2026

Version:00

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

1.1. Product identifier

Product form	: Substance
Substance name	: Nitrogen
EC-No.	: 231-783-9
CAS-No.	: 7727-37-9
Formula	: N ₂
Product group	: Trade product
REACH authorisation exemptions	: Exempted from REACH registration in accordance with Annex V of Regulation (EC) No 1907/2006

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

Relevant identified uses	: Industrial and professional. Perform risk assessment prior to use. Balance gas for mixtures. Blanketing gas. Calibration gas. Carrier gas. Fire suppressant gas. Food packaging gas. Inerting gas. Inflating tyres. Laboratory use. Laser gas. Pressure head gas, operational assist gas in pressure systems. Process gas. Purge gas. Test gas. Beverage applications. Shielding gas in gas welding. It is the responsibility of the end user to ensure that the product as supplied is suitable for its intended use.
Uses advised against	: Consumer use. Industrial or technical grade nitrogen is not suitable for medical, pharmaceutical or breathing applications unless specifically designated for such use.

1.3. Details of the supplier of the safety data sheet

KOYUNCU TİCARET A.Ş.
GEBZE 5 (KİMYA) İHTİSAS OSB GEBKİM OSB RECEP YAZICI CAD.NO:4 DİLOVASI
KOCAELİ - Türkiye T
+90 262 658 06 05
satis@koyuncutas.com - www.koyuncutas.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Turkey	Ulusal Zehir Merkezi (UZEM) Refik Saydam Hıfzıssıhha Merkezi Başkanlığı	Cemal Gürsel Cd. No: 18 Sıhhiye Çankaya 06590 Ankara	114	Information is provided to public and medical personnel on poisoning incidents via 114.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

"Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals" (Official Gazette 23.06.2017-30105 (Repeated)).

Gases under pressure : Compressed gas H280

Full text of H-statements: see section 16

2.2. Label elements

"Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals" (Official Gazette 23.06.2017-30105 (Repeated)).

Hazard pictograms (SEA)



GHS04

Signal word (SEA)

: Warning

Hazard statements (SEA)

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

Precautionary statements (SEA)

: P410+P403 - Protect from sunlight. Store in a well-ventilated place.

Child-resistant fastening

: Not applicable

Tactile warning

: Not applicable

2.3. Other hazards

Other hazards not contributing to the classification

Other hazards not contributing to the classification : May cause asphyxiation by displacing oxygen in confined spaces.



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SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	"Registration, Evaluation, Authorization and Authorization of Chemicals Prepared in accordance with the "Regulation on Restrictions" (23.06.2017-30105 (Repeated) Official Gazette).
Nitrogen	(CAS-No.) 7727-37-9 (EC-No.) 231-783-9 (REACH-no) *Exempted (Annex V)	100	Press. Gas (Compressed gas), H280

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after 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 (SCBA). Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
First-aid measures after skin contact	: Adverse effects not expected from this product.
First-aid measures after eye contact	: Adverse effects not expected from this product.
First-aid measures after ingestion	: Ingestion is not considered a potential route of exposure.

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

Most important symptoms and effects, both acute and delayed	: Respiratory arrest due to oxygen deficiency.
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4.3. Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: The product is non-flammable. In case of fire in the surroundings: use appropriate extinguishing agent.
Unsuitable extinguishing media	: No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Reactivity in case of fire	: No reactivity hazard other than the effects described in sub-sections below.
Hazardous combustion products	: None.

5.3. Advice for firefighters

Specific methods	: Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. If possible, stop flow of product. Use water spray or fog to knock down fumes if possible. Move containers away from the fire area if this can be done without risk.
Special protective equipment for fire fighters	: In confined space use self-contained breathing apparatus. Standard protective clothing and equipment (Self-contained breathing apparatus (SCBA)) for fire fighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate ventilation. Prevent from entering sewers, basements and work pits, or any place where its accumulation can be dangerous. Act in accordance with local emergency plan. Stay upwind. Oxygen detectors should be used when asphyxiating gases may be released.
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6.1.1. For non-emergency personnel

Evacuate the area. Prevent entry into confined spaces.

6.1.2. For emergency responders

Wear self-contained breathing apparatus (SCBA).

6.2. Environmental precautions

Try to stop release.

6.3. Methods and material for containment and cleaning up

Methods and material for containment and cleaning up : Ventilate the area.

6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Safe use of the product : The product must be handled in accordance with good industrial hygiene and safety procedures. Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations. Ensure that the complete gas system is regularly checked for leaks before use. Do not smoke while handling product. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Avoid the suck-back of water, acids and alkalis. Do not breathe gas. Avoid release of product into work area.
- Safe handling of the gas receptacle : Refer to supplier's container handling instructions. Do not allow backflow into the container. Protect cylinders from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a suitable cylinder trolley or hand truck designed to transport cylinders. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. If user experiences any difficulty operating cylinder valve discontinue use and contact supplier. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps, where supplied, as soon as the container is disconnected from equipment. Close container valve after each use and when empty, even if still connected to equipment. Never attempt to transfer gases from one cylinder/container to another. Never use direct flame or electrical heating devices to raise the pressure of a container. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents. Suck back of water into the container must be prevented.
Open valve slowly to avoid pressure shock.

7.2. Conditions for safe storage, including any incompatibilities

- Conditions for safe storage, including any incompatibilities : Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion. Container valve guards or caps should be in place. Containers should be stored in the vertical position and properly secured to prevent them from falling over. Stored containers should be periodically checked for general condition and leakage. Keep the container below 50 °C. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits
None of the components have assigned exposure limits.

8.2. Exposure controls

- Appropriate engineering controls : Consider a work permit system e.g. for maintenance activities. Ensure adequate ventilation. Oxygen detectors should be used when asphyxiating gases may be released. Systems under pressure should be regularly checked for leakages. Preferably use permanent leak tight connections (eg. welded pipes). Do not eat, drink or smoke when using the product.



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Personal protective equipment	: A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered: PPE compliant to the recommended EN/ISO standards should be selected.
Hand protection	: Wear suitable gloves when handling gas cylinders. Standard: EN 388 – Protective gloves against mechanical risks.
Eye protection	: Wear safety glasses with side shields. Standard: EN 166 – Personal eye protection.
Respiratory protection	: Self-contained breathing apparatus (SCBA) or positive pressure airline with mask should be used in oxygen-deficient atmospheres. Standard: EN 137 – Self-contained open-circuit compressed air breathing apparatus with full face mask.
Thermal hazard protection	: None in addition to the above sections.
Environmental exposure controls	: None necessary.
Other information	: Wear safety shoes when handling cylinders. Standard: EN ISO 20345 – Safety footwear.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gas
Molecular mass	: 28,01 g/mol
Colour	: Colourless.
Odour	: Odorless gas
Odour threshold	: Odour is not a reliable warning of overexposure.
pH	: Not applicable for gases and gas mixtures.
Evaporation rate	: Not applicable for gases.
Melting point	: -210,01 °C
Boiling point	: -196 °C
Flash point	: Not applicable for gases and gas mixtures.
Critical temperature	: -147,0 °C
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
Flammability (solid, gas)	: This product is not flammable.
Vapour pressure	: No reliable data available.
Vapour pressure at 50 °C	: Not applicable.
Critical pressure	: 4898 kPa
Relative vapour density at 20 °C	: Not applicable.
Relative density (air = 1)	: 0,808
Solubility	: Water: 20 mg/l
Log Pow	: Not applicable for inorganic products.
Log Kow	: Not applicable for gas mixtures.
Viscosity, kinematic	: No reliable data available.
Viscosity, dynamic	: 0,171 mPa.s (10,9 °C)
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Explosive limits	: Non flammable.

9.2. Other information

Gas group	: Compressed gas
Additional information	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.



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SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Avoid moisture in installation systems.

10.5. Incompatible materials

None. For additional information on compatibility refer to ISO 11114.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified pH: Not applicable for gases and gas mixtures.
Serious eye damage/irritation	: Not classified pH: Not applicable for gases and gas mixtures.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No known ecological damage caused by this product.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

12.2. Persistence and degradability

The substance is naturally occurring.

12.3. Bioaccumulative potential

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

Not applicable (gas).

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	: No data available.
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12.6. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No known effects from this product.



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Effect on the ozone layer : None.
Global warming potential (GWP) : None.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : May be vented to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. Return unused product in original cylinder to supplier.

Additional information : External treatment and disposal of waste should comply with applicable local and/or national regulations.

List of hazardous waste codes (from Commission Decision 2000/532/EC as amended) : 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1066	1066	1066	1066	1066
14.2. UN proper shipping name				
NITROGEN, COMPRESSED	NITROGEN, COMPRESSED	NITROGEN, COMPRESSED	NITROGEN, COMPRESSED	NITROGEN, COMPRESSED
Transport document description				
UN 1066 NITROGEN, COMPRESSED, 2.2	UN 1066 NITROGEN, COMPRESSED, 2.2	UN 1066 NITROGEN, COMPRESSED, 2.2	UN 1066 NITROGEN, COMPRESSED, 2.2	UN 1066 NITROGEN, COMPRESSED, 2.2
14.3. Transport hazard class(es)				
2.2	2.2	2.2	2.2	2.2
				
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Special transport precautions : 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 there is adequate ventilation, - 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.

- Overland transport

Classification code (ADR) : 1A
Special provisions (ADR) : 653, 662
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P200
Mixed packing provisions (ADR) : MP9
Tank special provisions (ADR) : TA4, TT9
Vehicle for tank carriage : AT
Special provisions for carriage - Loading, unloading and handling (ADR) : CV9, CV10, CV36



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Hazard identification number (Kemler No.) : 20

Orange plates :



Tunnel restriction code (ADR) : E

- Transport by sea

Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P200
EmS-No. (Fire) : F-C
EmS-No. (Spillage) : S-V
Stowage category (IMDG) : A
Properties and observations (IMDG) : Inert gas. Heavier than air (1.4).
MFAG-No : 121

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Forbidden
PCA limited quantity max net quantity (IATA) : Forbidden
PCA packing instructions (IATA) : 200
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 200
CAO max net quantity (IATA) : 150kg
ERG code (IATA) : 2L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. National regulations

Local regulations (Turkey) : Regulation on the Classification, Labelling and Packaging of Substances and Mixtures (SEA), published in the Official Gazette No. 29204 on 13 December 2014.
Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals (KKDİK), published in the Official Gazette No. 30105 on 23 June 2017.
Regulation on Health and Safety Measures When Working with Chemical Substances, published in the Official Gazette No. 28733 on 12 August 2013.
Regulation on the Use of Personal Protective Equipment in Workplaces, published in the Official Gazette No. 28695 on 2 July 2013.
Personal Protective Equipment Regulation, published in the Official Gazette No. 26361 on 29 November 2006.
Regulation on the Transport of Dangerous Goods by Road (ADR), published in the Official Gazette No. 28801 on 24 October 2013.

This product does not contain any substances that are controlled or prohibited for use under the Regulation on the Reduction of Ozone Depleting Substances, published in the Official Gazette No. 27052 on 12 November 2008.

Restrictions on use : None.

SECTION 16: Other information

Abbreviations and acronyms:

	ATE - Acute Toxicity Estimate
	CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
	REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
	EINECS - European Inventory of Existing Commercial Chemical Substances



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	CAS# - Chemical Abstract Service number
	LC50 - Lethal Concentration to 50 % of a test population
	RMM - Risk Management Measures
	PBT - Persistent, Bioaccumulative and Toxic
	vPvB - Very Persistent and Very Bioaccumulative
	STOT- SE : Specific Target Organ Toxicity - Single Exposure
	CSA - Chemical Safety Assessment
	EN - European Standard
	UN - United Nations
	ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
	IATA - International Air Transport Association
	IMDG code - International Maritime Dangerous Goods
	RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
	WGK - Water Hazard Class
	STOT - RE : Specific Target Organ Toxicity - Repeated Exposure

Data sources

: Regulation (EC) No. 1907/2006 (REACH)
Regulation (EU) 2020/878 amending Annex II of REACH
Regulation (EC) No. 1272/2008 (CLP – EU GHS)
Regulation on the Classification, Labelling and Packaging of Substances and Mixtures (SEA), Official Gazette No. 29204, 13.12.2014
Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals (KKDİK), Official Gazette No. 30105, 23.06.2017
Regulation on Health and Safety Measures When Working with Chemical Substances, Official Gazette No. 28733, 12.08.2013
Regulation on the Transport of Dangerous Goods by Road (ADR), Official Gazette No. 28801, 24.10.2013
European Chemicals Agency (ECHA) databases
European Industrial Gases Association (EIGA) safety data and publications
ECDIN – Environmental Chemicals Data and Information Network

Educational recommendations

: Since the hazard of asphyxiation is often overlooked, it should be emphasized during operator training. For additional guidance, refer to EIGA Safety Leaflet SL 01 – *"Dangers of Asphyxiation"*, available from www.eiga.eu.

Other information

: Classification in the light of information in databases managed by the European Industrial Gases Association (EIGA).

Full text of H-statements

Press. Gas (Comp.)	Gases under pressure : Compressed gas
H280	Contains gas under pressure; may explode if heated.

Restriction / Prohibition:

No prohibition or restriction has been imposed on the sale, use, usage areas and quantities of the product within the scope of this safety data sheet in order to protect the environment and human health. The information contained in this safety data sheet has been compiled based on the manufacturer's experience. The product-related information in this Safety Data Sheet has been compiled from what is known about the components. The data here is based on current knowledge and experience. This Safety Data Sheet examines the product for safety requirements and does not make any warranties regarding the product's specifications. The data here is only valid when the product is used in the appropriate application(s). The product is not sold in accordance with other applications; In such a case, its use may lead to risks not mentioned in this list. Do not use for other application(s) without information from the manufacturer. "Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals" has been prepared in accordance with O.G. 23.06.2017-30105 (Repeated) and has been prepared/approved by certified expert personnel as stipulated by the regulation. The information provided in this document is based on the best available information. This information applies only to the specified substance/preparation and may not apply if this substance/preparation is mixed with other substances/preparations or used in any other process. The information provided in this document does not constitute a guarantee/guarantee for the features of the product and does not have the characteristics of a legally binding agreement/contractual legal relationship. This document complements the technical documentation, but is not replaceable. The information provided is based on our knowledge of this product as it exists at the time of publication.

Safety Data Sheet Prepared by:

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Chemical Engineer
Chemical Assessment Specialist
Head. No: TÜV/11.302.01
Expiration Date: 5 November 2030