



MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

SUBSTANCE:	Nitrogen
FORMULA:	N ₂
SYNONYM:	Dinitrogen
TRADE NAME:	Nitrogen
CHEMICAL FAMILY:	Inert gas
COMPANY:	Megatek İletişim Sistemleri Ltd. Ethemefendi Cad. 14/1, 34728 Erenkoy / Istanbul / Turkey
Phone:	90 216 386 41 26
Fax:	90 216 360 06 81
CREATION DATE:	26. December. 2004
REVISION:	0

SECTION 2. COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT:	Nitrogen
CAS NUMBER:	7727 – 37 – 9
PERCENTAGE:	100

SECTION 3. HAZARDS IDENTIFICATION

CAUTION: Nitrogen is a colorless, nontoxic, odorless and nonflammable gas which can cause rapid suffocation when oxygen concentration is reduced below 19.5 %. Self contained breathing apparatus may be required.

EMERGENCY OVERVIEW:

COLOR:	Colorless
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ODOR:	Odorless
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PHYSICAL FORM:	Gas
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HEALTH HAZARDS:

Nitrogen is nontoxic, may cause suffocation by displacing oxygen. Moderate concentrations may cause serious injury or death.

EYE CONTACT:	No adverse effect
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SKIN CONTACT:	No adverse effect
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INHALATION:	Nausea, vomiting, difficulty breathing, drowsiness, coma.
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CARCINOGENIC POTENTIAL:	Nitrogen is not listed as a carcinogen by NTP, IARC or OSHA.
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SECTION 4. FIRST AID

INHALATION:	Remove exposed person from the area lack of oxygen. Keep warm and comfortable. Ensure air is fresh and clean. If person is not breathing, administer artificial respiration. If breathing is difficult, administer oxygen. Obtain prompt medical attention.
EYE CONTACT:	Wash eyes with water.
SKIN CONTACT:	No harm expected
SWALLOWING:	Nitrogen is in gaseous form in normal temperature and pressure.

SECTION 5. FIRE FIGHTING MEASURES

FLAMMABLE:	No
FLASH POINT:	Not applicable
AUTOIGNITION TEMPERATURE:	Not applicable
EXTINGUISHING MEDIA:	Use extinguishing agents suitable for the surrounding environment.
HAZARDOUS COMBUSTION PRODUCTS:	Non.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Remove all personnel from affected area. Ventilate area and monitor oxygen concentration before allowing entry. Use appropriate protective equipment. Leak checking may be done by using soapy water or by pressure drop test.

SECTION 7. HANDLING AND STORAGE

Compressed nitrogen is supplied in high pressure cylinders. Store cylinders in dry well ventilated area. Area temperature must be below 52 °C. Secure cylinders upright on a level, fireproof floor. Screw valve protection cap must be done firmly in place by hand. Do not roll or slide cylinder. Use appropriate pressure reducing regulator. Do not overheat the cylinder.
Never attempt to insert an object into cylinder valve.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Provide good ventilation to prevent accumulation of high concentration of gas. Oxygen concentration must be higher than 19.5 %.

EYE PROTECTION: Safety glasses are recommended when handling high pressure cylinders.

CLOTHING: Protective clothing is not required.

GLOVES: Leather work gloves are recommended when handling high pressure cylinders.

RESPIRATORY PROTECTION: In emergency or if engineering controls and work practices are not effective in controlling exposure, AS1715/1716 approved respiratory equipment is needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Colorless gas
PHYSICAL STATE:	Gas
ODOUR:	Odorless and tasteless
MOLECULAR WEIGHT:	28.01
BOILING POINT (1 atm):	-195.8 °C
SPECIFIC GRAVITY(Air=1):	0.967
SOLUBILITY IN WATER:	0.023 m ³ /kg
SPECIFIC VOLUME (at 21.1 °C and 1 atm):	0.867 m ³ /kg
FREEZING / MELTING POINT:	-209.9 °C
VAPOUR PRESSURE (at 21.1 °C)	Not applicable
FLAMMABILITY:	Non flammable
IGNITION TEMPERATURE:	Not applicable
CRITICAL TEMPERATURE:	-146.9 °C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable
MATERIALS TO AVOID:	Not available
INCOMPATIBILITY:	Not available
HAZARDOUS DECOMPOSITION PRODUCTS:	Not available
HAZARDOUS REACTION:	No reaction
HAZARDOUS POLIMERIZATION:	Not occur

11. TOXICOLOGICAL INFORMATION

INHALATION:	Nitrogen is a simple asphyxiate
INGESTION:	Not applicable
EYE:	Can cause severe frost burn
SKIN:	Can cause severe frost burn

12. ECOLOGICAL INFORMATION

Nitrogen is an atmospheric gas. The atmosphere contains approximately 78 % nitrogen. It does not contain ozone depleting chemical and it is not listed in marine pollutant chemicals.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable regulations.

14. TRANSPORT INFORMATION

PARAMETER:	A.D.R
HAZARD CLASS:	2
SHIPPING NAME:	Nitrogen, compressed
SHIPPING LABEL:	Nonflammable Gas
IDENTIFICATION NUMBER:	UN 1066

15. REGULATORY INFORMATION

Not all requirements are identified. User of this product is responsible for compliance with local regulations.

16. OTHER INFORMATION

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