



Material Safety Data Sheet

FM.PRO-35

1. Chemical Product and Company Identification

PRODUCT NAME : **NITROGEN**
TRADE NAME/SYNONYMS : *None*

COMPANY IDENTIFICATION :

PT. BSG GASES
Jl. Cempaka, Desa Jatimulya
Tambun, Bekasi - Indonesia
EMERGENCY PHONE : **+62 21 8812507 – 08**

2. Composition, Information on Ingredients

COMPONENT : **NITROGEN**
FORMULA : **N₂**
PERCENTAGE : **99+%**

3. Hazards Identification

EMERGENCY OVERVIEW : *High pressure gas.*
Can cause rapid suffocation.

POTENTIAL HEALTH EFFECTS:

ROUTES OF ENTRY: *Inhalation*

ACUTE EFFECTS: *Material acts as a simple asphyxiant by displacing air necessary for life. Symptoms include rapid respiration, muscular incoordination, fatigue, dizziness, nausea, vomiting, unconsciousness, and death.*

CHRONIC EFFECTS: *None known*

4. First Aid Measures

INHALATION: *Immediately remove victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.*

EYE CONTACT: *None*

SKIN CONTACT: *None.*

INGESTION: *None*

IN EVENT OF EXPOSURE, CONSULT A PHYSICIAN

5. Fire Fighting Measures

FLASH POINT: *Nonflammable*

AUTOIGNITION TEMPERATURE: *N/Av*

FLAMMABLE LIMITS: *Nonflammable*

EXTINGUISHING MEDIA: *Use what is appropriate for surrounding fire.*

SPECIAL FIRE FIGHTING INSTRUCTION AND EQUIPMENT: *Wear self-contained breathing apparatus and full protective clothing. Keep fire exposed cylinders cool with water spray. If possible, stop the product flow.*

HAZARDOUS COMBUSTION PRODUCTS: *None*

UNUSUAL FIRE AND EXPLOSION HAZARDS: *Cylinder rupture may occur under fire conditions*

6. Accidental Release Measures

CLEAN UP PROCEDURES: *Evacuate and ventilate area. Shut off source if possible and remove source of heat.*

SPECIALIZED EQUIPMENT: *None*

7. Handling And Storage

PRECAUTIONS TO BE TAKEN IN HANDLING: *Secure cylinder when using to protect from falling. Use suitable hand truck to move cylinders.*

PRECAUTIONS TO BE TAKEN IN STORAGE: *Store in well ventilated areas away from combustibles. Keep valve protection cap on cylinders when not in use.*

8. Exposure Controls, Personal Protection

ENGINEERING CONTROLS: *Provide adequate general and local exhaust ventilation to avoid asphyxiation.*

EYE / FACE PROTECTION: *Safety glasses*

SKIN PROTECTION: *None*

RESPIRATORY PROTECTION: *In case of leakage, use self-contained breathing apparatus.*

OTHER PROTECTIVE EQUIPMENT: *Safety shoes when handling cylinders.*

9. Physical And Chemical Properties

APPEARANCE: *Colorless*

ODOR: *Odorless*

PHYSICAL PRESSURE: *Gas*

VAPOR PRESSURE: *N/Av*

VAPOR DENSITY (AIR=1): *0.967*

BOILING POINT (C): *-195.5*

SOLUBILITY IN WATER: *cm³/100cm³ H₂O 1.485*

SPECIFIC GRAVITY (H₂O=1): *Gas*

EVAPORATION RATE: *Gas*

ODOR THRESHOLD: *None*

10. Stability and Reactivity

STABILITY: *Stable under normal storage conditions.*

CONDITIONS TO AVOID: *Storage in poorly ventilated areas. Storage near a heat source.*

MATERIALS TO AVOID: *Nitrogen reacts with Li, Nd, and Ti at high temperatures.*

HAZARDOUS POLYMERIZATION: *Will not occur.*

HAZARDOUS DECOMPOSITION: *None*

11. Toxicological Information

Not available

12. Ecological Information

Not available

13. Disposal Considerations

WASTE DISPOSAL METHOD: *Dispose of non-refillable cylinders in accordance with federal, state and local regulations. Allow gas to vent slowly to atmosphere in an unconfined area or exhaust hood. If the cylinders are the refillable type, return cylinders to supplier with any valve outlet plugs or caps secured and valve protection caps in place.*

14. Transport Information

PROPER SHIPPING NAME: **Nitrogen, compressed**

HAZARD CLASS: **2.2(nonflammable)**

IDENTIFICATION NUMBER: **UN1066**

LABELING: **NONFLAMMABLE GAS**

SPECIAL PRECAUTIONS: *Cylinders should be transported in a secure upright position in a well ventilated truck.*



15. Other Information

OTHER PRECAUTIONS: *Protect containers from physical damage. Do not deface cylinders or labels. Cylinders should be refilled by PT. BSG GASES qualified producers of compressed gas.*