

Safety Data Sheet

Hazard Information

Hazard information is provided for compliance with both the UK Chemicals (Hazard Information and Packaging) (CHIP) Regulations and the US Hazard Communication Standard (HCS).

Chemical and Company Identification

| Product name | Product code | |
|--|--------------|-------------------------------|
| N,N,N',N'-Tetramethylethylenediamine (TEMED) | GR151-25 | <i>For research use only.</i> |

Supplier

Hoefer, Inc.
84 October Hill Road, Suite 10
Holliston, MA 01746
Phone: 800-227-4750
508-893-8999

Emergency Contact

ChemTel Inc.
800-255-3924 (North America) +1-813-248-0585 (International)
1-300-954-583 (Australia) 0-800-591-6042 (Brazil)
000-800-100-4086 (India) 400-120-0751 (Peoples Republic of China)
800-099-0731 (Mexico)

Composition / Ingredients

| Hazard | CAS No. | EC No. | %WT | Molecular Formula | Molecular Weight |
|--------------------------------------|----------|-----------|-----|---|------------------|
| N,N,N',N'-Tetramethylethylenediamine | 110-18-9 | 203-744-6 | ~98 | C ₆ H ₁₆ N ₂ | 116.24 g/mol |

Hazards Identification

GHS Classification:

Flammable liquids (Category 2)
Acute toxicity, Oral (Category 3)
Acute toxicity, Inhalation (Category 3)
Skin corrosion (Category 1B)
Serious eye damage (Category 1)

Pictograms



Signal Word: DANGER

Hazard Statements:

H225: Highly flammable liquid and vapor
H301 + H331: Toxic if swallowed or if inhaled.
H314: Causes severe skin burns and eye damage.

Precautionary Statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/ physician.

Potential Health Effects:

Target Organs: Eyes, skin and mucous membranes

Eyes: May cause severe irritation and burns.

Skin: May cause skin burns and severe irritation.

Ingestion: May cause severe irritation to the GI tract. May be harmful if swallowed.

Inhalation: May cause respiratory tract irritation. May cause pulmonary edema.

CHRONIC HEALTH HAZARDS: May cause dermatitis.

First Aid Measures

Eyes: Flush eyes with water for at least 15 minutes. GET MEDICAL ATTENTION.

Skin: Immediately flush area with soap and water. Remove contaminated clothing. GET MEDICAL ATTENTION.

Inhalation: GET MEDICAL ATTENTION IMMEDIATELY. Remove from exposure to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
Ingestion: If swallowed wash out mouth with water if person is conscious. GET MEDICAL ATTENTION. CALL POISON CENTER. Do not induce vomiting.

Fire-Fighting Measures

General Information: Flammable liquid. Use full protective gear. Combustion generates toxic fumes.

Flammable: Yes

Flash Point: 17.2°C

Autoignition Temperature: N/A

Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.

Explosion Data: Not available.

Accidental Release Measures

Ventilate the area. Wear appropriate protective equipment. Collect with an electrically protected vacuum cleaner and place in container for disposal according to local regulations

Handling and Storage

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

Storage Conditions: Room temperature. Keep away from ignition sources. Keep in flammable area.

Exposure Controls/Personal Protection

Exposure limits: None listed

Use adequate ventilation. AVOID IGNITION SOURCES.

Wear appropriate protective equipment to prevent eye and skin exposure.

Wear appropriate respirator to prevent lung irritation.

Personal Protection: Lab coat, safety goggles, rubber gloves

Ventilation: Local exhaust systems. Use fume hood.

Respiratory protection: Use OSHA/MSHA approved respirator.

Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Clear, colorless. Amine odor

Vapor Density: 4.0

Vapor Pressure: 3 mmHg

Viscosity: N/A

Freezing/Melting Point: -67°F

Boiling Point: 250°F

Decomposition Temperature: N/A

Solubility: Soluble in water

Specific Gravity: 0.777

Stability and Reactivity

Stability: Stable under normal temperatures and pressure.

Conditions to Avoid: IGNITION SOURCES. High temps.

Incompatibility: Strong oxidizing and reducing agents

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide

Hazardous Polymerization: Has not been reported.

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Toxicological Properties

Exposure Limits:

Toxicity Data: LD₅₀ / LC₅₀

Oral, mouse: LD₅₀ = 630 mg/kg

Oral, rat: LD₅₀ = 268 mg/kg

Inhalation, rat: LC₅₀ = 1318 ppm/4 h

Skin, rabbit: LD₅₀ = 5390 mg/kg

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Neurotoxicity: No data available.

Mutagenicity: No data available.

Carcinogenicity: Not listed by ACGIH, IARC, NTP or OSHA

Ecological Information

Toxicity: No information found.

Disposal Considerations

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial, and local regulations.

Transportation Information

Shipping Information: REGULATED

US DOT: SHIPPING NAME: 1, 2-DI-(DIMETHYLAMINO)ETHANE, HAZARD CLASS 3, UN NUMBER: UN 2372, PACKING GROUP II

Canada TDG: SHIPPING NAME: FLAMMABLE LIQUID, CORROSIVE NOS (TETRAMETHYLETHYLENEDIAMINE, HAZARD CLASS 3(8), UN NUMBER : UN 2924, PACKING GROUP II

Regulatory Information

US: TSCA: listed

European/International:

Hazard Symbol: F C

Risk Phrases:

R 11: Highly flammable

R 20/21: Harmful by inhalation and if swallowed

Safety Phrases:

S 16: Keep away from sources of ignition. No smoking.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection

S 45: In case of accident or if you feel unwell, seek medical advice immediately.

Canada: WHMIS: B/2, E

Additional Information

Hazard Rating System (estimated)

| NFPA | Health | Fire | Reactivity |
|------|--------|------|------------|
| 3 | 3 | 0 | |

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