

## Safety Data Sheet


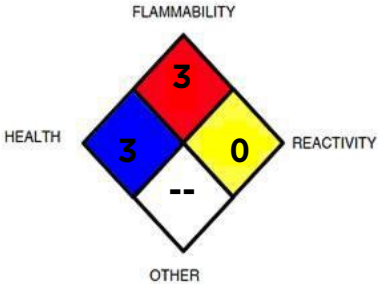
### Section 1: Product & Company Identification

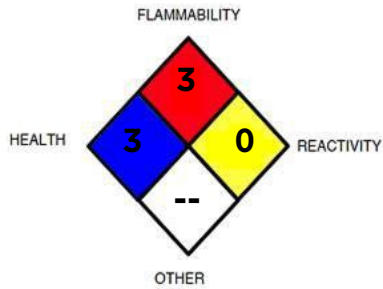
<b>Product Name:</b>	TEMED
<b>Product #:</b>	T-2699
<b>Synonyms:</b>	N,N,N',N'-Tetramethylethylenediamine
<b>Supplier:</b>	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
<b>Emergency Tele#:</b>	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

### Section 2: Composition / Information on Ingredients

Component	CAS #	EC #	% Composition
TEMED	110-18-9	203-744-6	≥ 97

### Section 3: Hazards Identification

<b>Symbols</b>	
<b>HMIS Classification</b>	<p>FLAMMABILITY</p> <p>HEALTH</p> <p>REACTIVITY</p> <p>OTHER</p> 

<b>NFPA Classification</b>	
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## Section 4: First Aid Measures

<b>General Overview:</b>	Consult a doctor and show this safety data sheet.
<b>Inhalation:</b>	Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
<b>Skin:</b>	Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
<b>Eyes:</b>	Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
<b>Ingestion:</b>	Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.
	See section 11 for more detailed information on health effects & symptoms.

## SECTION 5: Fire Fighting Measures

<b>Flammability of the product:</b>	Flammable
<b>Extinguishing Media:</b>	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide
<b>Hazardous thermal (de)composition products:</b>	Carbon oxides, Nitrogen oxides (NO <sub>x</sub> )
<b>Special Fire Fighting Procedures:</b>	Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.
<b>Flash Point:</b>	20°C

## Section 6: Accidental Release Measures




<b>Personal Precautions:</b>	Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust, or gas.
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<b>Environmental Precautions:</b>	Do not let product enter drains.
<b>Methods for Clean-up:</b>	Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

## SECTION 7: Handling & Storage

<b>Storage:</b>	Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Handle and store under inert gas. Air and moisture sensitive. Keep in a dry place. Store at room temperature. Storage class: Flammable liquids.
<b>Handling:</b>	Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

## SECTION 8: Exposure controls / Personal Protection

<b>Respiratory Protection:</b>	 <p>Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.</p>
<b>Skin and Body:</b>	  <p>Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Wear appropriate protective clothing. Complete suit protecting against chemicals, the</p>

	type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Eyes:</b>	 <p>Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).</p>
<b>Ventilation/Engineering Measures:</b>	Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.
<b>Hygiene:</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Other:</b>	Contains no substances with occupational exposure limit values.

## SECTION 9: Physical and Chemical Properties

<b>Appearance &amp; Odor:</b>	Clear colorless liquid
<b>Formula</b>	C <sub>6</sub> H <sub>16</sub> N <sub>2</sub>
<b>Molecular Wt.</b>	116.2
<b>Melting Pt.</b>	-55°C
<b>Boiling Pt.</b>	120 - 122°C
<b>Density:</b>	No data available
<b>Specific gravity:</b>	0.775
<b>Refractive index:</b>	1.4179
<b>Vapor Density:</b>	No data available
<b>Solubility:</b>	Water
<b>Flash Point:</b>	20°C
<b>Autoignition Temp:</b>	No data available

## SECTION 10: Stability and Reactivity

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous decomposition products:</b>	Carbon monoxide (CO), Formaldehyde

<b>Materials to Avoid:</b>	Strong oxidizing agents, Carbon dioxide (CO <sub>2</sub> ), Copper
<b>Conditions to avoid:</b>	Heat, flames, sparks, extremes of temperature and direct sunlight.

## SECTION 11: Toxicological Information

<b>RTECS#:</b>	N/A
<b>ACUTE Toxicity:</b>	LD50 Oral = 268 mg/kg (Rat) LD50 Dermal = 5,390 mg/kg (Rabbit) LD50 Inhalation = 1,318 ppm (Rat) 4 h
<b>CHRONIC Toxicity:</b>	N/A
<b>Chronic Exposure:</b> <b>Carcinogen:</b> <b>Mutagen:</b> <b>Teratogen:</b> <b>Reproductive:</b>	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA. EPA: No classification on carcinogenic data is available from EPA

## SECTION 12: Ecological Information

<b>Ecotoxicity:</b>	No data available
<b>Mobility:</b>	1,2-DI (Dimethylamino) Ethane, log Pow = 0.3
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative potential:</b>	No data available
<b>Other adverse effects:</b>	No data available
<b>Corrosivity Characteristic:</b>	No data available
<b>General Notes:</b>	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## SECTION 13: Disposal Considerations

<b>Residue Waste or Unused product:</b>	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management
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	options. State and local disposal regulations may differ from federal disposal regulations.
<b>Contaminated Packaging:</b>	Dispose of container and unused contents in accordance with federal, state and local requirements.

## SECTION 14: Transportation Information

<b>UN ID#:</b>	UN 2372
<b>ADR / RID (LAND):</b>	N/A
<b>DOT regulations:</b>	UN 2372 Proper Shipping Name: 1,2-DI-(DIMETHYLAMINO) ETHANE Hazard Class: 3 Packaging Group: II
<b>IMDG/IMO (SEA):</b>	UN 2372 Proper Shipping Name: 1,2-DI-(DIMETHYLAMINO) ETHANE Hazard Class: 3 Packaging Group: II
<b>IATA/DGR (AIR):</b>	UN 2372 Proper Shipping Name: 1,2-DI-(DIMETHYLAMINO) ETHANE Hazard Class: 3 Packaging Group: II
<b>Special Provisions:</b>	N/A

## SECTION 15: Regulatory Information

<b>Health Phrases:</b>	Danger! H225 Highly flammable liquid and vapor H301 Toxic if swallowed H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage H331 Toxic if inhaled
<b>Risk Phrases:</b>	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment P242 Use only non-sparking tools P243 Take precautionary measures against static discharge P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P264 Wash skin thoroughly after handling P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/face protection.
<b>Safety Phrases:</b>	P301 + P310 IF SWALLOWED: Call a POISON CENTER or doctor/physician.

	<p>P301+ P330+ P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305+ P351+ P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER or doctor/ physician.</p> <p>P321 Specific treatment (see. on this label).</p> <p>P330 Rinse mouth.</p> <p>P363 Wash contaminated clothing before reuse</p> <p>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction</p> <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403 + P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container to an approved waste disposal plant.</p>
<b>EU Regulations:</b>	N/A
<b>US Regulations:</b>	<p>TSCA: Listed</p> <p>California Proposition 65: No products were found</p>
<b>U.S. Federal Regulations:</b>	<p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 311/312 MSDS distribution-chemical inventory-hazard identification: Acute Health Hazard, Fire Hazard</p> <p>SARA 313 toxic chemicals notification and release reporting: No products were found.</p> <p>Clean Water Act (CWA) 307: No products were found.</p> <p>Clean Water Act (CWA) 311: No products were found.</p> <p>Clean Air Act (CAA) 112 accidental release prevention: 1,2-DI (Dimethylamino) Ethane (CAS 110-18-9), Group V</p> <p>Clean Air Act (CAA) 112 regulated flammable substances: No products were found.</p> <p>Clean Air Act (CAA) 112 regulated toxic substances: No products were found.</p> <p>OSHA: Flammable liquids (Cat. 2); Acute toxicity - oral (Cat. 3); Skin corrosion (Cat. 1B); Serious eye damage (Cat. 1); Acute toxicity, inhalation (Cat. 3)</p>
<b>WHMIS (Canada):</b>	DSL: Listed

## SECTION 16: Other Information



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