



Aviation Devices & Electronic Components, L.L.C.  
3215 W Loop 820 S  
Fort Worth, TX 76116  
Phone: 817-738-9161  
FAX: 817-738-9163

## SAFETY DATA SHEET

### SECTION 1: Identification

**Product Name:** TG3212, Hardener  
**Manufacturer:** Aviation Devices & Electronic Components, L.L.C. (Av-DEC)  
3215 W Loop 820 S  
Fort Worth, TX 76116  
**Emergency Contact:** 817-738-9161, available hours 8 a.m. to 5 p.m. CT.  
**Recommended Use:** Polyurea component; industrial chemicals.

### SECTION 2: Hazardou(s) Identification

**Physical hazards:** Not classified.  
**Health hazards:** Not classified.  
**Environmental hazards:** Not classified.  
**OSHA defined hazards:** Not classified.

#### Label elements:

**Hazard symbol:** None.  
**Signal word:** None.  
**Hazard statement:** The mixture does not meet the criteria for classification.  
**Precautionary statement:**  
**Prevention:** Observe good industrial hygiene practices.  
**Response:** Wash hands after contact/handling.  
**Storage:** Store away from incompatible materials and at or above 55 degrees Fahrenheit.  
**Disposal:** Dispose of waste in accordance with local requirements.

**Hazard(s) not otherwise classified (HNOC):** None known.  
**Supplemental information:** None.

### SECTION 3: Composition/Information on Ingredients

CAS Number	Content (W/W)	Chemical Name
5285-60-9	25 - 45%	4,4 Methylenebis (N-Sec-Butylaniline)

**Trade secret:** This particular mixture of ingredients performs in a unique manner and provides special attributes not available competitively. Safety precautions listed are stated to the best of our knowledge in accordance with the terms of the hazard communication standard.

### SECTION 4: First-Aid Measures

**General advice:** Remove contaminated clothing.  
**If inhaled:** Remove to fresh air. Assist in breathing if necessary.  
**If on skin:** Wash affected areas with soap and water.  
**If in eyes:** Rinse immediately with water for 15 minutes. Seek medical attention if necessary.  
**If swallowed:** Rinse mouth with water and then drink water or milk to dilute. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediate medical attention required.  
**Most important symptoms/effects, acute and delayed:** Direct contact with eyes may cause temporary irritation.  
**Indication of immediate medical attention and special treatment needed:** Treat symptomatically.



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### SECTION 5: Fire-Fighting Measures

**Suitable extinguishing media:** Foam, carbon dioxide, dry chemical.

**Unsuitable extinguishing media:** No known unsuitable extinguishing media.

**Specific hazards arising from the chemical:** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters:** Use self-contained breathing apparatus. Use water spray to cool fire-exposed containers and disperse unignited vapors.

**Firefighting equipment/instructions:** Move containers from fire area if you can do so without risk.

**Specific methods:** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards:** No unusual fire or explosion hazards noted.

### SECTION 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Keep unnecessary personnel away. Ensure adequate ventilation. Wear suitable personal protective clothing.

**Methods and materials for containment and cleaning up:**

**Large spills:** Stop the flow of material. Absorb with dry absorbent, dry sand, or earth and place in containers.

**Small spills:** Wipe up with cloth. Clean surface to remove residual contamination.

**Environmental precautions:** Avoid discharge into drains or onto the ground.

### SECTION 7: Handling and Storage

**Precautions for safe handling:** Avoid prolonged exposure. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities:** Store in tightly closed container. Store away from any incompatible materials.

### SECTION 8: Exposure Controls/Personal Protection

**Personal protective equipment:**

**Respiratory protection:** Generally not needed when used as indicated. For emergency, high exposure situations, use a NIOSH-certified respirator.

**Hand protection:** Use barrier cream or chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.

**Body Protection:** Prevent contact with skin.

**General safety and hygiene measures:** Wear protective clothing to prevent contact. Eye wash stations should be accessible. Wash soiled clothing. Clean contaminated equipment after use.

### Section 9: Physical and Chemical Properties

**Form:** Liquid.

**Odor:** Mild pungent odor.

**Odor threshold:** Not applicable.

**Color:** Black.

**pH Value:** Not applicable.

**Melting/Freezing point:** Not applicable.

**Boiling point:** Not Applicable.

**Sublimation point:** No applicable information available.

**Flash Point:** >200 degrees Centigrade.



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**Flammability:** Not Flammable.  
**Lower exposure limit:** Not relevant for classification and labeling.  
**Upper exposure limit:** Not relevant for classification and labeling.  
**Auto-ignition:** No relevant data available.  
**Vapor pressure:** No data available.  
**Density:** 1.06 g/ml @ 25 degrees centigrade.  
**Relative density:** Not applicable.  
**Vapor density:** Not applicable.  
**Partitioning coefficient n-octanol/water (log Pow):** Not applicable.  
**Self-ignition temperature:** Not self-igniting.  
**Thermal decomposition:** No decomposition if stored and handled as indicated.  
**Viscosity:** 32,000 to 47,000 cps.  
**Solubility in water:** Negligible  
**Evaporation rate:** Does not evaporate.  
**Decomposition temperature:** Not applicable.

### Section 10: Stability and Reactivity

**Reactivity:** This product is stable in its supplied form. No corrosive effects on metal.  
**Chemical stability:** This product is stable if stored and handled as indicated.  
**Possibility of hazardous reactions:** No dangerous reaction known under conditions of normal use.  
**Conditions to avoid:** Contact with incompatible materials.  
**Incompatible materials:** Strong oxidizing agents.  
**Hazardous decomposition products:** No decomposition if handled as indicated.

### Section 11: Toxicological Information

#### Primary routes of exposure:

**Inhalation:** No known adverse effects from inhalation when used as indicated.  
**Skin contact:** No adverse effects due to skin contact are expected.  
**Eye contact:** Direct contact with eyes may cause temporary irritation.  
**Ingestion:** Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical, and toxicological characteristics:** Direct contact with eyes may cause temporary irritation.

**Skin corrosion/irritation:** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation:** Direct contact with eyes may cause temporary irritation.

#### Respiratory or skin sensitization:

**Respiratory sensitization:** Not a respiratory sensitizer.  
**Skin sensitization:** Not expected to cause skin sensitization.

**Germ cell mutagenicity:** No data available to indicate product is mutagenic or genotoxic.

**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity:** Not available.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens:** Not available.

**Reproductive toxicity:** This product is not expected to cause reproductive or development effects.

**Specific target organ toxicity, single exposure:** Not classified.

**Specific target organ toxicity, repeated exposure:** Not classified.

**Aspiration hazard:** Not an aspiration hazard.

**Chronic effects:** Prolonged inhalation may be harmful.



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### Section 12: Ecological Information

**Ecotoxicity:** This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large spills can have a harmful effect on the environment.

**Persistence and degradability:** No data is available on the degradability of this product.

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** No other adverse effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

### Section 13: Disposal Considerations

**Disposal instructions:** Collect and reclaim or dispose in approved containers at licensed disposal site.

**Local disposal regulations:** Dispose in accordance with applicable regulations.

**Hazardous waste code:** The waste code should be assigned in discussion between the user and the waste disposal company.

**Waste from residues/unused products:** Dispose of in accordance with local regulations. Empty containers may retain product residues.

**Contaminated packaging:** Empty containers should be taken to an approved site for disposal.

### Section 14: Transport Information

**DOT:** Not regulated as dangerous goods.

**IATA:** Not regulated as dangerous goods.

**IMDG:** Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:** Not established.

### Section 15: Regulatory Information

**US federal regulations:** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4):** Not listed.

**SARA 304 Emergency release notification:** Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA):**

**Hazard categories:** Immediate Hazard: No

Delayed Hazard: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

**SARA 302 Extremely hazardous substance:** Not listed.

**SARA 311/312 Hazardous chemical:** No

**SARA 313 (TRI reporting):** Not regulated.

**Other federal regulations:**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:** Not listed.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):** Not regulated.

**Safe Drinking Water Act (SDWA):** Not regulated.