

## 1. Product and Company Identification

<b>Product Code:</b>	5310	
<b>Product Name:</b>	5310	
<b>Company Name:</b>	Appli-Tec, Inc 7 Industrial Way Unit 1 Salem, NH 03079	<b>Phone Number:</b> (603)685-0500
<b>Web site address:</b>	www.appli-tec.com	
<b>Emergency Contact:</b>	Contact medical emergency services	
<b>Information:</b>	Call Chemtrec for Transport Info.	(800)424-9300
<b>Intended Use:</b>	Adhesive	

## 2. Hazards Identification

**Specific Target Organ Toxicity (repeated exposure), Category 1**  
**Skin Corrosion/Irritation, Category 2**  
**Serious Eye Damage/Eye Irritation, Category 2**  
**Skin Sensitization, Category 1**  
**Germ Cell Mutagenicity, Category 2**  
**Carcinogenicity, Category 1B**  
**Specific Target Organ Toxicity (single exposure), Category 1**



<b>GHS Signal Word:</b>	<b>Danger</b>
<b>GHS Hazard Phrases:</b>	H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H341 - Suspected of causing genetic defects. H350 - May cause cancer . H370 - Causes damage to organs
<b>GHS Precaution Phrases:</b>	P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>GHS Response Phrases:</b>	P302+352 - IF ON SKIN: Wash with plenty of soap and water. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+313 - IF exposed or concerned: Get medical attention/advice. P333+313 - If skin irritation or rash occurs, seek medical advice/attention. P337+313 - If eye irritation persists, get medical advice/attention. P362 - Take off contaminated clothing and wash before re-use.
<b>GHS Storage and Disposal Phrases:</b>	P405 - Store locked up. P501 - Dispose of contents/container according to local and national regulations.

**Potential Health Effects  
(Acute and Chronic):**

**Inhalation:** Causes respiratory tract irritation. Dust is irritating to the respiratory tract.  
**Skin Contact:** May cause skin irritation. Allergic reactions are possible. May be harmful if absorbed through the skin. Dust may cause mechanical irritation.  
**Eye Contact:** Causes serious eye irritation. Dust may cause mechanical irritation.  
**Ingestion:** May be harmful if swallowed.  
**Additional Information** No data available.

**3. Composition/Information on Ingredients**

CAS #	Hazardous Components (Chemical Name)	Concentration
1344-28-1	Aluminum oxide	60.0 -70.0 %
25068-38-6	Bisphenol-a based epoxy resin	30.0 -40.0 %
108-45-2	1,3-Phenylenediamine	1.0 -2.0 %
25214-70-4	Polymethylene polyphenyl amine	1.0 -2.0 %
101-77-9	4,4'-Methylenedianiline	1.0 -2.0 %
1333-86-4	Carbon black	0.0 -0.1 %

**Additional Information** Exact percentages have been withheld as a trade secret.

**4. First Aid Measures**

**Emergency and First Aid Procedures:**

**In Case of Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration. Get medical advice/attention.  
**In Case of Skin Contact:** IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation or rash occurs, seek medical advice/attention.  
**In Case of Eye Contact:** Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.  
**In Case of Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Do NOT induce vomiting.  
**Signs and Symptoms Of Exposure:** Inhalation of high concentrations may cause: Cough.  
**Note to Physician:** Treat symptomatically and supportively. Consult a physician. Move out of dangerous area.

**5. Fire Fighting Measures**

**Flash Pt:** > 93.00 C  
**Explosive Limits:** LEL: No data. UEL: No data.  
**Autoignition Pt:** No data.  
**Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.  
**Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.  
**Flammable Properties and Hazards:** No data available.  
**Hazardous Combustion Products:** Carbon oxides, oxides of sulfur, Ammonia gas.

## 6. Accidental Release Measures

**Steps To Be Taken In Case Material Is Released Or Spilled:** Use proper personal protective equipment as indicated in Section 8. Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

## 7. Handling and Storage

**Precautions To Be Taken in Handling:** Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation.

**Precautions To Be Taken in Storing:** Store at <-40deg.C.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1344-28-1	Aluminum oxide	PEL: 15 (dust); 5 (resp.) mg/m3	TLV: 10 mg/m3 (E)	No data.
25068-38-6	Bisphenol-a based epoxy resin	No data.	No data.	No data.
108-45-2	1,3-Phenylenediamine	No data.	TLV: 0.1 mg/m3	No data.
25214-70-4	Polymethylene polyphenyl amine	No data.	No data.	No data.
101-77-9	4,4'-Methylenedianiline	PEL: 10 ppb STEL: 100 ppb	TLV: 0.1 ppm	No data.
1333-86-4	Carbon black	PEL: 3.5 mg/m3	TLV: 3 mg/m3 (IHL)	No data.

**Respiratory Equipment (Specify Type):** Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Eye Protection:** Safety glasses.

**Protective Gloves:** Wear appropriate protective gloves to prevent skin exposure.

**Other Protective Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Engineering Controls (Ventilation etc.):** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Work/Hygienic/Maintenance Practices:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. Physical and Chemical Properties

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Appearance and Odor:** Appearance: Black.  
Odor: amine-like.

**Melting Point:** No data.

**Boiling Point:** No data.

**Flash Pt:** > 93.00 C

**Evaporation Rate:** No data.

**Flammability (solid, gas):** No data available.

**Explosive Limits:** LEL: No data. UEL: No data.

**Vapor Pressure (vs. Air or mm Hg):** No data.

**Vapor Density (vs. Air = 1):** No data.

**Specific Gravity (Water = 1):** 2.2

**Solubility in Water:** No data.

**Percent Volatile:** No data.

**Autoignition Pt:** No data.

## 10. Stability and Reactivity

**Stability:** Unstable [ X ]    Stable [   ]

**Conditions To Avoid - Instability:** Product will cure at ambient temperatures. Keep in cold storage until ready to use.

**Incompatibility - Materials To Avoid:** Strong oxidizers. Strong acids.

**Hazardous Decomposition or Byproducts:** Nitrogen oxides, Carbon monoxide, irritating and toxic fumes and gases, Carbon dioxide, nitrogen gas. Carbon oxides, Carbon oxides, sulfur oxides.

**Possibility of Hazardous Reactions:** Will occur [   ]    Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:** No data available.

## 11. Toxicological Information

**Toxicological Information:** No data available.

**Irritation or Corrosion:** Moderate eye irritation.

**Sensitization:** Skin sensitization.

**Carcinogenicity/Other Information:** IARC: 2B - Group 2B: Possibly carcinogenic to humans (Diaminodiphenyl menthane, 4, 4').

## 12. Ecological Information

**General Ecological Information:** Toxic to aquatic life with long lasting effects.

## 13. Disposal Considerations

**Waste Disposal Method:** Observe all federal, state, and local environmental regulations. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport Information

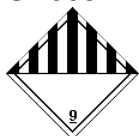
### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not Regulated.

**DOT Hazard Class:** 9    CLASS 9

**UN/NA Number:** UN3082

**Packing Group:** III



**LAND TRANSPORT (Canadian TDG):**

**TDG Shipping Name:** No information available. Not Regulated.

**MARINE TRANSPORT (IMDG/IMO):**

**IMDG/IMO Shipping Name:** Environmentally Hazardous Substance, Liquid, n.o.s.  
(4,4-Methylenedianiline)

**AIR TRANSPORT (ICAO/IATA):**

**ICAO/IATA Shipping Name:** Environmentally Hazardous Substance, Liquid, n.o.s.  
(4,4-Methylenedianiline)

**15. Regulatory Information**

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1344-28-1	Aluminum oxide	No	No	Yes
25068-38-6	Bisphenol-a based epoxy resin	No	No	No
108-45-2	1,3-Phenylenediamine	No	No	Yes
25214-70-4	Polymethylene polyphenyl amine	No	No	No
101-77-9	4,4'-Methylenedianiline	No	Yes 10 LB	Yes
1333-86-4	Carbon black	No	No	No

**Other US EPA or State Lists**

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
1344-28-1	Aluminum oxide	TSCA: Yes - Inventory
25068-38-6	Bisphenol-a based epoxy resin	TSCA: Yes - Inventory
108-45-2	1,3-Phenylenediamine	TSCA: Yes - Inventory
25214-70-4	Polymethylene polyphenyl amine	TSCA: Yes - Inventory
101-77-9	4,4'-Methylenedianiline	TSCA: Yes - Inventory
1333-86-4	Carbon black	TSCA: Yes - Inventory

**16. Other Information**

**Revision Date:** 09/18/2017

**Additional Information About This Product:** No data available.

**Company Policy or Disclaimer:** The information on this data sheet represents our current and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet or the applicable technical bulletin, or which involves using the product in combination with any other product or any other process is the responsibility of the user.