

## 1. Product and Company Identification

**Product Code:** 3191  
**Product Name:** 3191  
**Company Name:** Appli-Tec, Inc  
 7 Industrial Way Unit 1  
 Salem, NH 03079  
**Phone Number:** (603)685-0500

**Web site address:** www.appli-tec.com

**Emergency Contact:** Contact medical emergency services  
**Information:** Call Chemtrec for Transport Info. (800)424-9300

**Intended Use:** Adhesive

## 2. Hazards Identification

**Acute Toxicity: Skin, Category 4**  
**Skin Corrosion/Irritation, Category 1C**  
**Serious Eye Damage/Eye Irritation, Category 1**  
**Skin Sensitization, Category 1**  
**Specific Target Organ Toxicity (single exposure), Category 3**



**GHS Signal Word:** Danger

**GHS Hazard Phrases:** H312 - Harmful in contact with skin.  
 H314 - Causes severe skin burns and eye damage.  
 H317 - May cause an allergic skin reaction.  
 H336 - May cause drowsiness or dizziness.

**GHS Precaution Phrases:** P260 - Do not breathe vapors, mist, or spray.  
 P264 - Wash hands thoroughly after handling.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P272 - Contaminated work clothing should not be allowed out of the workplace.  
 P280 - Wear protective gloves/eye protection/face protection.

**GHS Response Phrases:** P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+351+338 - 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.  
 P333+313 - If skin irritation or rash occurs, seek medical advice/attention.  
 P363 - Wash contaminated clothing before reuse.

**GHS Storage and Disposal Phrases:** P403+233 - Store container tightly closed in well-ventilated place.  
 P405 - Store locked up.  
 P501 - Dispose of contents/container according to national and local regulations.

**OSHA Regulatory Status:** This material is classified as hazardous under OSHA regulations.

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

**Inhalation:** Harmful if inhaled.  
**Skin Contact:** Causes skin burns. May cause allergic skin reaction.  
**Eye Contact:** Causes eye burns. Causes serious eye damage.  
**Ingestion:** Harmful if swallowed.  
**Additional Information** No data available.

**3. Composition/Information on Ingredients**

CAS #	Hazardous Components (Chemical Name)	Concentration
7429-90-5	Aluminum	20.0 -35.0 %
28768-32-3	4,4'-Methylenebis[N,N-bis(2,3-epoxypropyl)aniline ]	20.0 -35.0 %
25068-38-6	Bisphenol-a based epoxy resin	15.0 -25.0 %
NA	Modified Epoxy Resin	1.0 -10.0 %
112-57-2	Tetraethylenepentamine	5.0 -10.0 %
7209-38-3	1,4-Bis(3-aminopropyl)piperazine	1.0 -9.0 %
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	0.1 -5.0 %
65997-17-3	Fibrous glass	1.0 -5.0 %
112945-52-5	Silica, amorphous treated	0.1 -3.0 %
4067-16-7	3,6,9,12-Tetraazatetradecamethylenediamine	0.1 -3.0 %
112-24-3	1,2-Ethanediamine, N,N'-Bis(2-aminoethyl)-	0.1 -1.0 %
1333-86-4	Carbon black	0.0 -1.0 %

**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 to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**In Case of Skin Contact:** Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash contaminated clothing before reuse.

**In Case of Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention/advice.

**In Case of Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice/attention.

## 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:** No data available.

## 6. Accidental Release Measures

**Steps To Be Taken In Case Material Is Released Or Spilled:** Ensure adequate ventilation. Isolate area and deny entry. Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Use proper personal protective equipment as indicated in Section 8. 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. Avoid ingestion and inhalation. Use only 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
7429-90-5	Aluminum	PEL: 15 (dust); 5 (resp.) mg/m3	TLV: 1 mg/m3 (resp.)	No data.
28768-32-3	4,4'-Methylenebis[N,N-bis(2,3-epoxypropyl)aniline]	No data.	No data.	No data.
25068-38-6	Bisphenol-a based epoxy resin	No data.	No data.	No data.
NA	Modified Epoxy Resin	No data.	No data.	No data.
112-57-2	Tetraethylenepentamine	No data.	No data.	No data.
7209-38-3	1,4-Bis(3-aminopropyl)piperazine	No data.	No data.	No data.
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	No data.	No data.	No data.
65997-17-3	Fibrous glass	No data.	TLV: 1 f/cc (fibers)	No data.
112945-52-5	Silica, amorphous treated	No data.	No data.	No data.
4067-16-7	3,6,9,12-Tetraazatetradecamethylenediamine	No data.	No data.	No data.
112-24-3	1,2-Ethanediamine, N,N'-Bis(2-aminoethyl)-	No data.	No data.	No data.
1333-86-4	Carbon black	PEL: 3.5 mg/m3	TLV: 3 mg/m3 (IHL)	No data.

<b>Respiratory Equipment (Specify Type):</b>	Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
<b>Eye Protection:</b>	Safety glasses.
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Other Protective Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Engineering Controls (Ventilation etc.):</b>	Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

## 9. Physical and Chemical Properties

<b>Physical States:</b>	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid	
<b>Appearance and Odor:</b>	Appearance: Gray. Liquid. Odor: amine-like.	
<b>Melting Point:</b>	No data.	
<b>Boiling Point:</b>	No data.	
<b>Flash Pt:</b>	> 93.00 C	
<b>Evaporation Rate:</b>	No data.	
<b>Flammability (solid, gas):</b>	No data available.	
<b>Explosive Limits:</b>	LEL: No data.	UEL: No data.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	No data.	
<b>Vapor Density (vs. Air = 1):</b>	No data.	
<b>Specific Gravity (Water = 1):</b>	~1.4	
<b>Solubility in Water:</b>	No data.	
<b>Percent Volatile:</b>	No data.	
<b>Autoignition Pt:</b>	No data.	

## 10. Stability and Reactivity

<b>Stability:</b>	Unstable <input checked="" type="checkbox"/> Stable <input type="checkbox"/>
<b>Conditions To Avoid - Instability:</b>	Product will cure at ambient temperatures. Keep in cold storage until ready to use.
<b>Incompatibility - Materials To Avoid:</b>	Strong oxidizing agents, Strong reducing agents.
<b>Hazardous Decomposition or Byproducts:</b>	Carbon oxides, Nitrogen oxides.
<b>Possibility of Hazardous Reactions:</b>	Will occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>
<b>Conditions To Avoid - Hazardous Reactions:</b>	No data available.

**11. Toxicological Information**

**Toxicological Information:** No data available.  
**Irritation or Corrosion:** Serious eye damage/irritation. Skin corrosion/irritation.  
**Sensitization:** Skin sensitization.

**12. Ecological Information**

**General Ecological Information:** Toxic to aquatic life.

**13. Disposal Considerations**

**Waste Disposal Method:** Observe all federal, state, and local environmental regulations.

**14. Transport Information**

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** AMINES, SOLID, CORROSIVE, N.O.S. (Tetraethylene pentamine, Substituted piperazine)  
**DOT Hazard Class:** 8 CORROSIVE  
**UN/NA Number:** UN3259 **Packing Group:** III



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

**IMDG/IMO Shipping Name:** AMINES, SOLID, CORROSIVE, N.O.S. (Tetraethylene pentamine, Substituted piperazine)

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

**ICAO/IATA Shipping Name:** AMINES, SOLID, CORROSIVE, N.O.S. (Tetraethylene pentamine, Substituted piperazine)

**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)
7429-90-5	Aluminum	No	No	Yes
28768-32-3	4,4'-Methylenebis[N,N-bis(2,3-epoxypropyl)aniline ]	No	No	No
25068-38-6	Bisphenol-a based epoxy resin	No	No	No
NA	Modified Epoxy Resin	No	No	No
112-57-2	Tetraethylenepentamine	No	No	No
7209-38-3	1,4-Bis(3-aminopropyl)piperazine	No	No	No
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	No	No	No
65997-17-3	Fibrous glass	No	No	No
112945-52-5	Silica, amorphous treated	No	No	No
4067-16-7	3,6,9,12-Tetraazatetradecamethylenediamine	No	No	No
112-24-3	1,2-Ethanediamine, N,N'-Bis(2-aminoethyl)-	No	No	No
1333-86-4	Carbon black	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7429-90-5	Aluminum	TSCA: Yes - Inventory
28768-32-3	4,4'-Methylenebis[N,N-bis(2,3-epoxypropyl)aniline ]	TSCA: Yes - Inventory
25068-38-6	Bisphenol-a based epoxy resin	TSCA: Yes - Inventory
NA	Modified Epoxy Resin	TSCA: Yes - Inventory
112-57-2	Tetraethylenepentamine	TSCA: Yes - Inventory
7209-38-3	1,4-Bis(3-aminopropyl)piperazine	TSCA: Yes - Inventory
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	TSCA: Yes - Inventory, 8A, 8A PAIR
65997-17-3	Fibrous glass	TSCA: Yes - Inventory
112945-52-5	Silica, amorphous treated	TSCA: Yes - Inventory
4067-16-7	3,6,9,12-Tetraazatetradecamethylenediamine	TSCA: Yes - Inventory
112-24-3	1,2-Ethanediamine, N,N'-Bis(2-aminoethyl)-	TSCA: Yes - Inventory
1333-86-4	Carbon black	TSCA: Yes - Inventory

## 16. Other Information

**Revision Date:** 02/10/2017

**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.