

# MATERIAL SAFETY DATA SHEET



Product Name: **Bondline 7247 Unfilled**  
Chemical Name: **Amine**  
Preparation Date: **8/1/1998**  
Revision Date: **2/9/2004**  
Revision: **C**

## **Section 1: Identification**

Bondline Electronic Adhesives  
756 N. Pastoria Avenue  
Sunnyvale, CA 94085  
Telephone: 408-830-9200 Fax: 408-830-9266  
Web: [www.bondline.net](http://www.bondline.net)

## **Section 2: Hazardous Ingredients & Section 313 Supplier Notification**

<u>Hazardous Material</u>	<u>Cas Number</u>	<u>%</u>	<u>TLV per ACGIH<sup>1,3</sup></u>	<u>Exposure Limit PEL<sup>2,3</sup></u>	<u>Codes</u>
N-( Aminoethylaminoethyl) imidazolidine	Trade Secret	<5	N/A	N/A	H
Bisphenol A Epoxy resin	2426-08-6	>30	N/A	N/A	H

Alumina is not hazardous after it has been blended to epoxy resin. If the Cured adhesive is to be dry sanded or ground, follow recommendations in section VIII. Under such circumstances, "wet sanding" is recommended to eliminate airborne Silica.

### Hazard Codes

C = Carcinogen ( OSHA,NTP,IARC)

H= Hazardous ( OSHA )

P= California Prop 65 ( Carcinogen )

A= Superfund Amendments Reauthorization Act(SARA)

1= TLV means threshold limit values.

2= PEL means Permitted exposure limit set fourth by OSHA.

3= All exposure limits in mg/m3 values for airborne dust.

a= mmpcf million particles per cubic foot of air.

b= respirable.

ACGIH= The American Conference of Governmental Industrial Hygienists

TWA= TWA means 8 hour time weighted average.

## **Section 3: Physical Data**

Boiling point	188° C
Vapor pressure @ 25°C	<1mm
Vapor density ( Air = 1 )	>1
Solubility in H <sup>2</sup> O	Slight
Appearance	Green/Blue
Specific gravity	2.1
% Volatile by weight	<1%
Evaporation rate	N/A
Odor	Slight

## **Section 4: Fire and Explosion Hazard Data**

Flash point	64°C
Flammable Limits in Air	Not Tested
Extinguishing media	Carbon dioxide, dry chem, foam, water fog
Unusual fire & Explosion Hazd.	Toxic fumes may be evolved upon exposure to heat or open flame. Exothermic reaction can occur in large masses.
Special fire fighting procedure	Self contained breathing apparatus and protective clothing should be worn.

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## **Section 5: Health and Hazard Information**

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### **Effects of overexposure**

Inhalation	May be harmful if inhaled. Can cause irritation to the nose, throat and respiratory tract, and nausea.
Eye contact	Can cause severe irritation to the eyes.
Skin Contact	Irritation upon direct contact. Prolonged exposure may result in skin sensitization. Wash skin thoroughly with soap and water.

### **First aid & Emergency procedure**

Eye contact	Flush with water for at least 15 minutes, can cause severe irritation to the eyes. Seek medical attention.
Skin contact	Wash immediately with soap and water
Inhaled	Remove to fresh air immediately.
Ingestion	Seek medical attention immediately and show MSDS.
Suspected cancer agent	Product is not considered to be carcinogenic.

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## **Section 6: Reactivity Data**

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Stability	Stable when stored at -40°C or colder. Will harden at room temperature.
Incompatibility ( materials to avoid )	Strong oxidizing agents
Conditions to avoid	Excessive heat or flames
Haz. decomposition products	Carbon monoxide, acids, aldehydes
Hazardous polymerization	May occur

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## **Section 7: Spill, leak and disposal procedures**

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Spill or leak	Use paper towels to wipe up epoxy. Epoxy will harden at room temperature.
Waste disposal method	Cure epoxy ( see data sheet ) Can be disposed in land fill.

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## **Section 8: Special protection information**

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Ventilation	Local exhaust is preferred. Use material in a well ventilated work area.
Eye protection	Safety goggles.
Gloves	Rubber gloves or finger cottles.
Respiratory protection	Use NIOSH approved dust mask, or NIOSH approved organic respirator if needed.
Curing ovens	vent to outdoors

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## **Section 9: Special precautions**

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Storage and handling	Refrigerated storage at -40°C or colder is required.
Shelf life	6 months when stored at -40°C or colder.

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## **Section 10: Regulatory Information**

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SARA/TITLE III-Toxic Chemicals List: This product contains chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 part 372.

**Cas Number**      %

TSCA Inventory Status: Chemical components listed on TSCA Inventory  
California Prop. 65: This product does contain toxic chemicals currently on the California list of known carcinogens and reproductive toxins.  
<0.5 ppm

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Disclaimer: All statements, technical information and recommendations contained herein are based on tests we believe to be accurate, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of warranty express or implied. Seller and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising from use or inability to use the project. Before using, user shall determine the suitability of the product for his/her intended use, and user assumes all risk and liability whatsoever in connection therewith. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

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