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1. Product and Company Identification

0238B **Product Code: Product Name:** 0238B

Appli-Tec, Inc **Phone Number:** Company Name: 7 Industrial Way Unit 1 (603)685-0500

Salem, NH 03079

Web site address: www.appli-tec.com

Contact medical emergency services **Emergency Contact:**

Information: Call Chemtrec for Transport Info. (800)424-9300

Intended Use: Hardener for two part adhesive

2. Hazards Identification

Acute Toxicity: Oral, Category 4 Acute Toxicity: Skin, Category 3 Skin Corrosion/Irritation, Category 1C

Serious Eye Damage/Eye Irritation, Category 1

Skin Sensitization, Category 1





GHS Signal Word: Danger

GHS Hazard Phrases: H302 - Harmful if swallowed.

H311 - Toxic in contact with skin.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

P264 - Wash hands thoroughly after handling. **GHS Precaution Phrases:**

> P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves, eye and face protection.

P260 - Do not breathe vapors, mist, or spray.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. **GHS Response Phrases:**

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all

contaminated clothing. Rinse skin with water/shower. P363 - Wash contaminated clothing before reuse.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P310 - Immediately call a poison control center or physician.

P333+313 - If skin irritation or rash occurs, seek medical advice/attention.

GHS Storage and Disposal P501 - Dispose of contents/container according to national and local regulations.

P405 - Store locked up. Phrases:

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



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Potential Health Effects (Acute and Chronic):

Inhalation: Harmful if inhaled.

Skin Contact: Toxic in contact with skin. May cause an allergic skin reaction. Causes skin

burns.

Eye Contact: Causes eye burns. Causes serious eye damage.

Ingestion: Harmful if swallowed. Corrosive to mouth, throat and stomach.

Additional Information No data available.

3. Composition/Information on Ingredients

CAS # Hazardous Components (Chemical Name) Concentration

112-57-2 Tetraethylenepentamine 90.0 -100.0 %

112-24-3 1,2-Ethanediamine, N,N'-Bis(2-aminoethyl)- 1.0 -5.0 %

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: N.A. UEL: N.A.

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 No data available.

Hazards:

Hazardous Combustion

No data available.

Products:

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6. Accidental Release Measures

Material Is Released Or Spilled:

Steps To Be Taken In Case Ensure adequate ventilation. Isolate area and deny entry. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. 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 with adequate ventilation. Normal measures for preventive fire protection.

Precautions To Be Taken

Keep tightly closed. Store in cool, dry area. Keep away from water.

in Storing:

8. Exposure Controls/Personal Protection

CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
112-57-2	Tetraethylenepentamine	No data.	No data.	No data.
112-24-3	1,2-Ethanediamine,	No data.	No data.	No data.
	N,N'-Bis(2-aminoethyl)-			

Respiratory Equipment

(Specify Type):

(Ventilation etc.):

Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Safety glasses. **Eye Protection:**

Protective Gloves: Engineering Controls

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

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.

e Practices:

Work/Hygienic/Maintenanc Handle in accordance with good industrial hygiene and safety practice. Wash

thoroughly after handling.

9. Physical and Chemical Properties

[X] Liquid [] Solid Physical States:

Appearance: amber. Liquid. Appearance and Odor:

Odor: amine-like.

No data. **Melting Point: Boiling Point:** No data. > 93.00 C Flash Pt: **Evaporation Rate:** No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: N.A. UEL: N.A.

Vapor Pressure (vs. Air or No data.

mm Hq):

Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = ~1.0

Solubility in Water: No data.



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Percent Volatile: No data.

Autoignition Pt: No data.

10. Stability and Reactivity

Stability: Unstable [] Stable [X] Conditions To Avoid - Heat, Incompatible materials.

Instability:

Incompatibility - Materials nitrites.

To Avoid:

Hazardous Decomposition Carbon oxides, Nitrogen oxides.

or Byproducts:

Possibility of Hazardous Will occur [] Will not occur [X]

Reactions:

Conditions To Avoid - No data available.

Hazardous Reactions:

11. Toxicological Information

Toxicological Information: No data available.

Irritation or Corrosion: Serious eye damage/irritation. Skin corrosion/irritation.

Sensitization: Skin sensitization.

12. Ecological Information

No data available.

13. Disposal Considerations

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

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping (Tetraethylenepentamine)

Name:

DOT Hazard Class: 8 CORROSIVE

UN/NA Number: UN2320 Packing Group: III

CORROSIVE 8

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: (Tetraethylenepentamine)

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping (Tetraethylenepentamine)

Name:

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)



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CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists

112-57-2 Tetraethylenepentamine TSCA: Yes - Inventory 112-24-3 1,2-Ethanediamine, N,N'-Bis(2-aminoethyl)- TSCA: Yes - Inventory

16. Other Information

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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.

other product or any other process is the responsibility of the user.