

MATERIAL SAFETY DATA SHEET

Lonseal #650 Two-Component Solvent-Free Adhesive, Part B

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME: Lonseal #650 Two-Component Solvent-Free Adhesive, Part B
MATERIAL USE: Sheet Vinyl Adhesive

MANUFACTURED FOR: Lonseal, Inc. **DATE PRINTED:** 7/31/2014
ADDRESS: 928 E. 238th Street **DATE REVISED:** 7/30/2014
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24 HOUR EMERGENCY PHONE NUMBERS: U.S. Transportation – CHEMTREC (800) 424-9300
INFOTRAC (800) 535-5053

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	%	CAS
<i>Urea, N,N'-bis[3-(dimethylamino)propyl]-</i>	30-60	52338-87-1
<i>Diethylene triamine</i>	15-40	111-40-0
<i>Bisphenol A</i>	10-30	80-05-7
<i>Epoxy resin</i>	10-30	68610-56-0

	ORAL LD ₅₀ (RAT)	DERMAL LD ₅₀ (RABBIT)
<i>Diethylene triamine (111-40-0)</i>	819 mg/kg	672 mg/kg
<i>Bisphenol A (80-05-7)</i>	3200 mg/kg	3000 mg/kg

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product has been evaluated using criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). Contact with this material will cause irritation and burns to the skin and eyes. May cause sensitization by skin contact.

HAZARDOUS STATEMENT: DANGER! CORROSIVE. ALLERGEN. Causes burns to the skin and eyes. May cause sensitization by skin contact. Irritating to respiratory system. Vapor harmful. Wear suitable gloves, eye/face protection, and respiratory protection. Keep out of the reach of children.

POTENTIAL HEALTH EFFECTS

Eyes: This product is severely irritating to the eyes and may cause eye burns.

Ingestion: Ingestion of this product may cause nausea, vomiting, and diarrhea.

Inhalation: This product is irritating to the respiratory system.

Skin: This product is severely irritating to the skin and may cause skin burns. Prolonged contact with this product may cause allergic skin sensitization reactions.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Hypersensitivity to product, allergies, and skin or respiratory disorders.

POTENTIAL ENVIRONMENTAL EFFECTS: None identified.

MATERIAL SAFETY DATA SHEET

Lonseal #650 Two-Component Solvent-Free Adhesive, Part B

SECTION 4: FIRST AID MEASURES

Eyes: Get medical attention or advice. Immediately flush eyes with plenty of water for at least 15 minutes.

Ingestion: Flush out mouth with water. Get medical attention or advice. Do not induce vomiting.

Inhalation: Immediately remove the affected person to fresh air. If symptoms persist, get medical attention.

Skin: Get medical attention or advice. Flush with large amounts of water.

Notes to Physician: Provide general supportive measures and treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

FIRE HAZARD: Closed containers may rupture due to build-up of pressure when exposed to extreme heat.

FLASHPOINT AND METHOD: N/A

FLAMMABLE LIMITS (% BY VOLUME):

Upper: N/A

Lower: N/A

AUTOIGNITION TEMPERATURE: N/A

BURNING RATE: N/A

EXPLOSION DATA: None listed.

EXTINGUISHING MEDIA: Dry chemical (preferred,) foam, or water.

FIRE FIGHTING EQUIPMENT/PROCEDURES: Firefighters should wear full protective clothing including self-contained breathing apparatus.

HAZARDOUS COMBUSTION PRODUCTS: Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide, and/or low molecular weight hydrocarbons.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear appropriate protective equipment and clothing during clean-up.

CONTAINMENT PROCEDURES: Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Scoop up used absorbent into drums or other appropriate container.

ENVIRONMENTAL PRECAUTIONS: Dispose of waste material according to local, state, federal, and provincial environmental regulations.

MATERIAL SAFETY DATA SHEET

Lonseal #650 Two-Component Solvent-Free Adhesive, Part B

CLEAN-UP PROCEDURES: Attempt to reclaim the free product, if this is possible. Shovel the material into waste container. Thoroughly wash the area with water after a spill or leak clean-up. Keep out of the reach of children.

EVACUATION PROCEDURES: None identified.

SPECIAL PROCEDURES: Regulations vary. Consult local authorities before disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING PROCEDURES: Avoid getting this material into contact with your skin and eyes. Avoid breathing vapors or mists of this product. Wash hands after handling and before eating. Keep out of the reach of children.

STORAGE PROCEDURES: Store in a cool, dry, well-ventilated area. Store at ambient temperature and atmospheric pressure. Store away from strong oxidizers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:

Diethylene triamine (111-40-0)

ACGIH	Skin – potential significant contribution to overall exposure by cutaneous route 1 ppm TWA
OSHA	1 ppm TWA; 4 mg/m ³ TWA
NIOSH	1 ppm TWA; 4 mg/m ³ TWA Potential for dermal absorption

ENGINEERING CONTROLS: Use general ventilation.

PERSON PROTECTIVE EQUIPMENT (PPE):

Eyes/Face: Wear safety glasses with side shields or goggles.

Respiratory: If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Skin: The use of nitrile-latex gloves is recommended. Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. Replace ripped or damaged gloves immediately. May cause sensitization by skin contact.

WORK HYGIENIC PRACTICES: Launder contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

MATERIAL SAFETY DATA SHEET

Lonseal #650 Two-Component Solvent-Free Adhesive, Part B

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid	Odor:	Amine odor
Physical State:	Liquid	pH:	N/A
Vapor Pressure:	N/A	Vapor Density:	N/A
Boiling Point:	N/A	Melting Point:	N/A
Solubility (H₂O):	Negligible	Specific Gravity:	0.98
Evaporation Rate:	N/A	VOC:	10 g/L (mixture)
Octanol/H₂O Coeff.:	N/A		

Physical Properties – Additional Information: The data provided in this section is to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity, or Certificate of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: This is a stable material.

Conditions to Avoid: Do not freeze.

INCOMPATIBILITY: This product may react with strong acids, bases, and oxidizing agents.

POSSIBILITY OF HAZARDOUS REACTIONS: Will not occur.

HAZARDOUS DECOMPOSITION: Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Upon decomposition, this product may emit fumes of carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE: See Section 3.

EFFECTS OF CHRONIC EXPOSURE: Not listed.

SENSITIZATION: This product may be sensitizing by prolonged skin contact.

CARCINOGENICITY: None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

REPRODUCTIVE TOXICITY: Not listed.

TERATOGENICITY: Not listed.

EMBROTOXICITY: Not listed.

MUTAGENICITY: Not listed.

SYNERGISTIC MATERIAL: Not listed.

MATERIAL SAFETY DATA SHEET

Lonseal #650 Two-Component Solvent-Free Adhesive, Part B

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:

COMPONENT ANALYSIS – AQUATIC TOXICITY:

Diethylene triamine (111-40-0)

Test & Species		Conditions
96 Hr LC50 <i>Leuciscus idus</i>	430 mg/L [semi-static]	
96 Hr LC50 <i>Poecilia reticulata</i>	248 mg/L [static]	
96 Hr LC50 <i>Poecilia reticulata</i>	1014 mg/L [semi-static]	
72 Hr EC50 <i>Psuedokirchneriella subcapitata</i>	1164 mg/L	
96 Hr EC50 <i>Psuedokirchneriella subcapitata</i>	345.6 mg/L	
96 Hr EC50 <i>Desmodesmus subspicatus</i>	592 mg/L	
24 Hr EC50 <i>Daphnia magna</i>	37 mg/L	
48 Hr EC50 <i>Daphnia magna</i>	16 mg/L	

Bisphenol A (80-05-7)

Test & Species		Conditions
96 Hr LC50 <i>Pimephales promelas</i>	3.6 – 5.4 mg/L [flow-through]	
96 Hr LC50 <i>Pimephales promelas</i>	4.0 – 5.5 mg/L [static]	
96 Hr LC50 <i>Oncorhynchus mykiss</i>	4 mg/L	
96 Hr LC50 <i>Brachydanio rerio</i>	9.9 mg/L [static]	
96 Hr EC50 <i>Psuedokirchneriella subcapitata</i>	2.5 mg/L	
48 Hr EC50 <i>Daphnia magna</i>	10.2 mg/L	

SECTION 13: DISPOSAL CONSIDERATIONS

COMPONENT WASTE NUMBERS: No EPA Waste Numbers are applicable for this product's components.

DISPOSAL INSTRUCTIONS: Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

MATERIAL SAFETY DATA SHEET

Lonseal #650 Two-Component Solvent-Free Adhesive, Part B

SECTION 14: TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT)

Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (Diethylene triamine, Modified Aliphatic Amine Adduct)

Hazard Class: 8

ID Number: UN2735

Packing Group: II

Label Codes: Not listed

Marine Pollutant: Not listed

IATA

Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (Diethylene triamine, Modified Aliphatic Amine Adduct)

Hazard Class: 8

ID Number: UN2735

Packing Group: II

Label Codes: Not listed

Marine Pollutant: Not listed

IMDG

Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (Diethylene triamine, Modified Aliphatic Amine Adduct)

Hazard Class: 8

ID Number: UN2735

Packing Group: II

Label Codes: Not listed

Marine Pollutant: Not listed

TDG

Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (Diethylene triamine, Modified Aliphatic Amine Adduct)

Hazard Class: 8

ID Number: UN2735

Packing Group: II

Label Codes: Not listed

Marine Pollutant: Not listed

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

General Product Information: All of the components of this product are listed on, or are exempted from listing on the U.S. EPA TSCA Inventory of Chemical Substances. All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List unless otherwise noted.

MATERIAL SAFETY DATA SHEET

Lonseal #650 Two-Component Solvent-Free Adhesive, Part B

Component Analysis: This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), and/or CERCLA (40 CFR 302.4).

Bisphenol A

SARA 313: 1.0% de minimis concentration

STATE REGULATION

General Product Information: Other state regulations may apply. Check individual state requirements.

Component Analysis: The following components appear on one or more of the following state hazardous substances list:

Diethylene triamine (111-40-0): CA, MA, MN, NJ, PA, RI

Bisphenol A (80-05-7): MA, NJ, PA

CALIFORNIA PROPOSITION 65: This product contains a chemical known to the state of California to cause cancer.

CANADA WHMIS INFORMATION

General Product Information:



Component Analysis – WHMIS IDL:

Component	CAS #	Minimum Concentration
Diethylene triamine	111-40-0	0.1%
Bisphenol A	80-05-7	1%

ADDITIONAL REGULATORY INFORMATION

General Product Information: Supplier(s) of proprietary component(s) state that these components are contained on the TSCA inventory.

Component Analysis – Inventory

Component	CAS #	TSCA	CAN	EEC
Urea, N, N'-bis[3-(dimethylamino)propyl]-	52338-87-1	Yes	DSL	EINECS
Diethylene triamine	111-40-0	Yes	DSL	EINECS
Bisphenol A	80-05-7	Yes	DSL	EINECS
Epoxy resin	68610-56-0	Yes	DSL	No

MATERIAL SAFETY DATA SHEET

Lonseal #650 Two-Component Solvent-Free Adhesive, Part B

SECTION 16: OTHER INFORMATION

HMIS RATINGS:

Health: 3
Flammability: 0
Physical Hazard: 0
Personal Protection: Safety glasses, gloves, synthetic apron, vapor respirator if airborne concentrations exceed exposure limits
Hazard Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3= Serious; 4 = Severe

NFPA CODES:

Health: 3
Flammability: 0
Instability/Reactivity: 0
Special: None
NFPA Ratings: 0 = Minimal; 1 = Slight; 2 = Moderate; 3= Serious; 4 = Severe

GENERAL STATEMENTS:

Keep out of the reach of children.

For professional or industrial use only.

If you cannot read, or do not understand all directions, cautions, and warnings, do not use this product.

DISCLAIMER: Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. This information relates only to the product designated herein, and does not relate to its use in combination with other material or in any other process. The manufacturer makes no representations and assumes no liability for any direct, incidental, or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State, or provincial and local laws. Conditions of use are beyond our control and therefore users are responsible to verify this data under their own conditions to determine suitability for their purpose.