Safety Data Sheet

Section 1: Identification

1.1 Product Identifier

Product Name: Lonseal #650 Two-Component, Solvent-Free Epoxy Adhesive, Part B

Product Code(s): ZAD650.5, ZAD6501

1.2 Relevant Identified Uses and Uses Advised Against

Product Use: Sheet vinyl flooring adhesive (see Technical Data Sheet for additional details)
Product Restriction(s): For use with sheet vinyl flooring only (see Technical Data Sheet for additional details)

1.3 Details of the Supplier of the Safety Data Sheet

Manufactured For: Lonseal, Inc.
Address: 928 E. 238th Street
Carson, CA 90745

Carson, CA 90745 (310) 830-7111

24 Hour Emergency Phone Number: INFOTRAC – (800) 535-5053

Section 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

Acute Toxicity, Category 2:H330Fatal if inhaled.Skin Corrosion/Irritation, Category 1B:H314Causes severe skin burns and eye damage.Serious Eye Damage/Irritation, Category 1:H318Causes serious eye damage.

Skin Sensitizer, Category 1B: H317 May cause an allergic skin reaction.

Toxic to Reproduction, Category 2: H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity, Single Exposure, Category 3: H335 May cause respiratory irritation.

Aquatic, Chronic, Category 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label Elements



Signal Word: DANGER

Hazard Statement(s):

H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H330 Fatal if inhaled.
 May cause respiratory irritation.
 H361 Suspected of damaging fertility or the unborn child.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in well-ventilated area.

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

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection, and face protection.

P284 In case of inadequate ventilation wear respiratory protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue Rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see supplementary instructions on this label).
P333+P313 If skin irritation or rash occurs: Get Medical advice/attention.
P337+P313 If eye irritation persists: Get Medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

Storage Statement(s)

P405 Store locked up.

Disposal Statement(s)

P501 Dispose of contents/container in accordance with applicable regulations.

2.3 Other Hazards

None noted by the manufacturer.

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PART B

SAFETY DATA SHEET

Section 3: Composition/Information on Ingredients

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

Ingredient/Chemical Name	CAS Number	Weight %	Classification*
1,3-Bis(3-(dimethylamino)propyl)urea	0052338-87-1	25 – 50	Skin Irrit. 2: H315
			Eye Irrit. 2A: H319
Diethylene triamine	0000111-40-0	25 – 50	Acute Tox. 4: H302
			Acute Tox. 2: H303
			Acute Tox. 4: H312
			Skin Corr. 1B: H314
			Eye Dam. 1: H318
			Skin Sens. 1B: H317
			Repr. 2: H361
			STOT SE 3: H335
			Aquatic Chronic 3: H412
Bisphenol A	0000080-05-7	10 – 25	Eye Dam. 1: H318
			Skin Sens. 1: H317
			Repr. 2: H361
			STOT SE 3: H335
Diethylenetriamine reaction product with bisphenol A	0068610-56-0	10 – 25	Skin Irrit. 2: H315
and epichlorohydrin polymer			Eye Irrit. 2A: H319

^{*}The full text of the GHS Hazard Statement(s) may be found in Section 16

Section 4: First-Aid Measures

4.1 Description of necessary first-aid measures

Eyes: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an

ophthalmologist immediately. Protect uninjured eye.

Ingestion: Do not induce vomiting; get medical attention showing the SDS and the hazard label.

Inhalation: If breathing is irregular or stopped, administer artificial respiration. In case of inhalation, consult a doctor

immediately and show him/her packing or label.

Skin: Immediately take off all contaminated clothing. Obtain medical attention if skin related symptoms persist. Remove

contaminated clothing immediately and dispose of safely. After contact with skin, wash immediately with soap and

plenty of water.

4.2 Most Important Symptoms/Effects, Acute and Delayed

Eye irritation, eye damages, skin irritation, and erythema

4.3 Indication of Immediate Medical Attention and Special Treatment Needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Section 5: Fire-Fighting Measures

5.1 Suitable Extinguishing Media

Water and carbon dioxide (CO₂)

 $\textbf{Unsuitable Extinguishing Media:} \ \ \textbf{None in particular}$

5.2 Specific Hazards Arising from the Substance or Mixture

Do not inhale explosion and combustion gases. Burning produces heavy smoke.

Hazardous Combustion Products: n/a
Explosive Properties: n/a
Oxidizing Properties: n/a

5.3 Special Protective Actions for Fire-Fighters

Use suitable breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

Wear personal protection equipment. Wear breathing apparatus if exposed to vapors/dusts/aerosols. Provide adequate ventilation. Use appropriate respiratory protection. See protective measures under Section 7 and 8.

6.2 Environmental Precautions

Not noted by mfg.

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6.3 Methods and Materials for Containment and Cleaning Up

Suitable material for taking up: absorbing material, organic, sand. Wash with plenty of water.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling

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DATA SHEET Avoid contact with skin and eyes, inhalation of vapors and mist. Exercise the greatest care when handling or opening container. Do not use on extensive surface areas in premises where there are occupants. Use localized ventilation system. Do not use empty container before they have been cleaned. Before making transfer operations, assure that there are not any incompatible material residuals in the containers. Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working. See also Section 8 for recommended protective equipment.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage Temperature: n/a

Incompatible Materials: None in particular.

Instructions as Regards Storage Premises: Cool and adequately ventilated. Always keep in a well ventilated space.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Ingredient/Chemical Name	CAS Number	Source	Value (Long Term)	Behavior	Note
Diethylene triamine	0000111-40-0	ACGIH	1 ppm	Not noted	Skin – potential significant contribution to overall exposure by the cutaneous route; eye and upper respiratory tract irritation
Bisphenol A	0000080-05-7	EU	10 mg/m ³	Indicative	None noted

8.2 Appropriate Engineering Controls

n/a

8.3 Appropriate Protection Measures, Including Personal Protective Equipment

Eye Protection: Use close fitting safety goggles. Do not use eye lenses.

Respiratory Protection: Use adequate protective respiratory equipment.

Skin Protection: Use clothing that provides comprehensive protection to the skin (e.g. cotton, rubber, PVC, or Viton).

Use protective gloves that provide comprehensive protection (e.g. PVC, neoprene, or rubber).

Section 9: Physical and Chemical Properties

Appearance: Liquid
Odor: like Amines
Odor Threshold: n/a
pH: n/a
Melting Point/Freezing Point: n/a
Initial Boiling Point and Boiling Range: n/a

Flash Point: >212 °F (100 °C)

Evaporation Rate: n/a

Flammability (Solid, Gas): Not noted by mfg. Upper/Lower Flammability or Explosive Limits: n/a

Vapor Pressure: n/a
Vapor Density: n/a
Relative Density: 0.98 g/cm³
Solubility in Water: No data available
Partition Coefficient (n-octanol/water): n/a
Auto-Ignition Temperature: n/a

Decomposition Temperature: n/a Viscosity: n/a Solubility in Oil: n/a **Explosive Properties:** n/a **Oxidizing Properties:** n/a **Substance Groups Relevant Properties:** n/a Miscibility: n/a Fat Solubility: n/a Conductivity: n/a

Section 10: Stability and Reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Data not available.

10.3 Possibility of Hazardous Reactions

None

10.4 Conditions to Avoid

Stable under normal conditions.

10.5 Incompatible Materials

None in particular.

10.6 Hazardous Decomposition Products

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Section 11: Toxicological Information

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Ingredient/Chemical Name	CAS Number	Oral LD50, Rat, mg/kg (acute toxicity)	Skin LD50, Rabbit, (acute toxicity)
Diethylene triamine	0000111-40-0	819	672 mg/kg
Bisphenol A	0000080-05-7	3200	3000 mg/kg;
			3 mL/kg

If not differently specified, the information required in the regulation and listed below must be considered as n/a: Acute toxicity, skin corrosion/irritation, serious eye damage/irritation, respiratory or skin sensitization, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT-single exposure, STOT-repeated exposure, and aspiration hazard.

 Substance(s) listed on the IARC Monographs:
 None

 Substance(s) listed as OSHA Carcinogen(s):
 None

 Substance(s) listed as NIOSH Carcinogen(s):
 None

 Substance(s) listed on the NTP Report on Carcinogen(s):
 None

Section 12: Ecological Information

12.1 Toxicity

Adopt good working practices, so that the product is not released into the environment.

SAFETY DATA SHEET List of components with Foe Taylorland Properties (Agustic Agust Tayloity)

Ingredient/Chemical Name	CAS Number	96 hr. LC50 fish, mg/L	EC50 crustacea, mg/L	96 hr. EC50 algae, mg/L	72 hr. EC50 algae, mg/L
Diethylene triamine	0000111-40-0	248: Poecilia reticulate (IUCLID); 430: Leuiciscus idus	16: Daphnia magna (48 hr. – IUCLID); 37: Daphnia magna (24 hr.); 16: Daphnia magna (48 hr.)	345.6: Pseudo- kirchneriella subcapitata (EPA); 592: Desmodesmus subspicatus (IUCLID)	1164: Pseudo- kirchneriella subcapitata (IUCLID)
Bisphenol A	0000080-05-7	3.6: Pimphelas promelas (EPA); 4: Oncorhynchus mykiss (IUCLID); 9.9: Brachydanio rerio (IUCLID)	10.2: Daphnia magna (48 hr. – IUCLID); 3.9: Daphnia magna (48 hr.)	2.5: Pseudo- kirchneriella subcapitata (IUCLID)	Not listed

12.2 Persistence and Degradability

n/a

12.3 Bioaccumulative Potential

n/a

12.4 Mobility in Soil

n/a

12.5 Other Adverse Effects

n/a

Section 13: Disposal Considerations

13.1 Disposal Methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

Section 14: Transport Information

	DOT/ADR	IMO/IMDG	ICAO/IATA
UN Number	UN2079	UN2079	UN2079
UN Proper Shipping Name	Diethylenetriamine	Diethylenetriamine	Diethylenetriamine
Transport Hazard Class(es)	8	8	8
Packing Group	II	II	11

Environmental Hazards:

SOLVENT-FREE EPOXY ADHESIVE #650 TWO-COMPONENT,

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Marine Pollutant: No Environmental Pollutant: n/a

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: n/a

Special Precautions for User:

DOT:

Special Provisions: B2, IB2, T7, TP2 Labels: Symbol: n/a

Cargo Aircraft: n/a Passenger Aircraft: n/a Bulk: n/a Non-Bulk: n/a

ADR-RID:

Exempt: Not noted by mfg.

Label: Hazard Identification Number: 80 Tunnel Restriction Code: 2 (E) Passenger Aircraft: 851

Cargo Aircraft: 855 Label: 8 Subrisk: ERG: 8L **Special Provisions:**

IMDG:

Stowage Code: Category A

Stowage Note: Clear of living quarters. "Separated from" acids. Subrisk:

Special Provisions: Page: n/a Label: n/a EmS: F-A, S-B MFAG: n/a

Section 15: Regulatory Information

Toxic Substance Control Act (TSCA): All components are listed on the TSCA Inventory.

Listed Substance(s) Section 1,3-Bis(3-(dimethylamino)propyl)urea Diethylene triamine 8b Bisphenol A 8h Diethylenetriamine reaction product with bisphenol A 8h

and epichlorohydrin polymer

Superfund Amendments and Reauthorization Act (SARA)

Section 302 - Extremely Hazardous Substances: No substances listed.

Section 304 – Hazardous Substances: No substances listed. Section 313 – Toxic Chemical List: Bisphenol A

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

Listed Substance(s): No substances listed.

Clean Air Act (CAA)

Listed Substance(s) Section Bisphenol A 112(b) - HON

Clean Water Act (CWA)

Listed Substance(s): No substances listed.

USA – State Regulations

California Proposition 65: No substances listed.

Massachusetts RTK: Diethylene triamine, Bisphenol A New Jersey RTK: Diethylene triamine, Bisphenol A Pennsylvania RTK: Diethylene triamine, Bisphenol A

Canada - Federal Regulations

Domestic Substances List (DSL): All the substances are listed in the DSL. Non-Domestic Substances List (NDSL): No substances listed. National Pollutant Release Inventory (NPRI): No substances listed.

Section 16: Other Information

Additional Classification Information:

3 = Chronic

HMIS Health - Is health hazard chronic?: Yes HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 1 = Slight

HMIS PPE: C = Safety glasses, gloves, chemical apron

NFPA Health: 3 = Serious

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 1 = Slight NFPA Special Risk: n/a

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Full Text of GHS Hazard Statements from Section 3: H302 Harmful if swallowed. H312 Harmful in contact with skin. Causes severe skin burns and eye damage. H314 Causes skin irritation. H315 H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eve irritation. Fatal if inhaled. H330 H335 May cause respiratory irritation. H361 Suspected of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects. H412

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 materials 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 based upon data from manufacturers and/or technical sources, and is believed to be accurate as of the revision 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. Users of this product must comply with all applicable health and safety laws, regulations, and orders. Users of this product assume all risks of use, handling, and disposal, or from use of the information contained within this document.

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 for this product, DO NOT use.

SAFETY DATA SHEET

Abbreviations (may not actually appear within document):

ACGIH American Conference of Governmental Industrial Hygienists

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE Acute Toxicity Estimate

bw Body Weight Carc. Carcinogenicity

CAS Chemical Abstracts Service

CFR Code of Federal Regulations

CMR Carcinogenicity, Mutagenicity, and Toxicity for Reproduction

CNS Central Nervous System

cSt centistokes d Day(s) Dam. Damage

DIN German Institute for Standardization

DNEL Derived No Effect Level
DSL Domestic Substances List
DOT Department of Transportation
EC European Commission

EC50 Effective Concentration, for 50% of Test Population

EmS Emergency Schedule Information EPA Environmental Protection Agency

EPCRA Emergency Planning and Community Right-to-Know Act ErC50 Effective Concentration, for 50% of Test Population

ERG Emergency Response Guidebook

g grams GHS Globall

GHS Globally Harmonized System

HMIS Hazardous Materials Identification System

hr. hour(s)
IARC Interna

IARC International Agency for Research on Cancer
IATA International Air Transport Association
ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
IMO International Maritime Organization

IOELV Indicative Occupational Exposure Limit Values

Irrit. Irritation
L liter(s)
lbs. pounds

LC50 Lethal Concentration, for 50% of Test Population

LD50 Lethal Dose, for 50% of Test Population

Liq. Liquid meter(s)

MFAG Medical First Aid Guide for Use in Accidents Involving Dangerous Goods

mfg. Manufacturer
mg milligram(s)
mL milliliter
n/a Not Applicable
n.o.s. not otherwise specified

NFPA National Fire Protection Association

NIOSH National Institute for Occupational Safety and Health

NOEC No Observed Effect Concentration
NTP National Toxicology Program
OEL Occupational Exposure Limits
OSHA Occupational Safety and Health Administration

Pa Pasca

PBT Persistent Bioaccumulative and Toxic

PEL Permissible Exposure Limit

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PNEC Predicted No Effect Concentration PPE Personal Protective Equipment

ppm Parts Per Million
Repr. Reproductive Toxicity
Respir. Respiratory Tract Irritation

RID Regulation Concerning the International Transport of Dangerous Goods by Rail

RQ Reportable Quantities
RTK Right-to-Know
SDS Safety Data Sheet
Sens. Sensitization

STEL Short-Term Exposure Limit STOT Specific Target Organ Toxicity

STOT RE Specific Target Organ Toxicity, Repeat Exposure STOT SE Specific Target Organ Toxicity, Single Exposure TCC Tag Closed Cup

THF Tetrahyrdofuran
TLV Threshold Limit Value

Tox. Toxicity

TSCA Toxic Substances Control Act TWA Time Weighted Average

vPvB very Persistent and very Bioaccumulative

WEL Workplace Exposure Limit

WHMIS Workplace Hazardous Materials Information System

Revision History:

6.1.2015 Initial SDS Release. SDS provided by mfg. was incorporated into Lonseal's letterhead/layout. Items contained

within Section 16, from "DISCLAIMER" and below, are exclusive to Lonseal's version of the SDS.

9.15.2015 SDS updated to match the most recently supplied manufacturer's revision, and added a new product code. Sections

revised: 1.1, 2.1, 2.2, 2.3, 3, 4.1, 4.2, 5.2, 6.1, 7.1, 11, 12.1, 15, and 16.

9.6.2016 SDS updated to match the most recently supplied manufacturer's revision. Sections revised: 1, 2, 3, 4.1, 5.1, 6.1,

7, 8.1, 9, 11, 12.1, 14, 15, and 16.

9.9.2016 Title block at left incorrectly showing "Part A", changed to "Part B".

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