

## -----1.PRODUCT IDENTIFIER &amp; IDENTITY FOR THE CHEMICAL -----

**TRADE NAME (as labelled):** LATAPOXY<sup>®</sup> 310 Stone Epoxy Adhesive Part A

**CHEMICAL FAMILY:** Amine Mixer

**MANUFACTURERS NAME:** LATICRETE Pty Ltd.  
29 Telford Street,  
Virginia, QLD 4012

**For additional information:** 1800331012, 07 38651599

**Poisons information number:** 131126

**Date prepared or revised:** 08/05/12

## ----- 2. HAZARDS IDENTIFICATION -----

**Classification: Hazardous** according to the criteria of the NOHSC. Not classified as a Dangerous Goods substance according to the ADG code. Not classified as a scheduled poison according to the SUSDP.

**Risk Phrases:** R36/38 - Irritating to eyes and skin, R41 – Risk of serious damage to eyes. R43 - May cause sensitisation by skin contact. R37 - Irritating to the respiratory system. R34 - Corrosive, R51 - Toxic to aquatic organism, R62-Possible risk of impaired fertility, R63-Possible risk of harm to the unborn child.

**Safety Phrases:** S2-Keep out of reach of children, S24 - Avoid contact with skin. S25 - Avoid contact with eyes. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 - After contact with skin wash immediately with plenty of soap suds. S38 - In case of insufficient ventilation, wear suitable respiratory protection. S36/37/39 - Wear suitable protective equipment, clothing, gloves and eye/face protection. Respiratory protection if vapours/mists are generated.

## ----- 3. COMPOSITION / INFORMATION ON INGREDIENTS-----

Chemical Names	CAS Numbers	Percent
Tall oil fatty acids reaction product with Tetraethylenepentamine	68953-36-6	6-9
Phenol, 4-Nonyl-, Branched	84852-15-3	1-3
m-Xylene-.a., .a.'-Daimine	1477-55-0	1-3
N-(aminoethyl)piperazine	140-31-8	1-3
Tetraethylpentamine	1112-57-2	1-2
Benzly alcohol	100-51-6	1-2
Other ingredients determined not to be hazardous	-	To 100

## ----- 4. FIRST AID MEASURES-----

**FIRST AID or EMERGENCY PROCEDURES**

**EYE CONTACT:** Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

**SKIN CONTACT:** Remove product and immediately flush affected area with water for at least 15 minutes. Remove contaminated clothing and shoes. Launder contaminated clothing prior to reuse. See a physician if irritation persists.

**INHALATION:** Move patient to fresh air. If breathing has stopped or is laboured give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Prevent aspiration of vomit. Turn victim's head to the side. Seek medical advice.

**INGESTION:** If swallowed, call a physician immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**First aid facilities**

Provide industrial first aid facilities, eye wash station and safety showers as appropriate.

**Notes to Physician**

Possible aggravated pre-existing conditions – none reported.

Suggested treatment for acute symptoms, known antidotes – Provide care and treatment based on the patients reaction to the exposure. For further information contact the; Poisons Information Centre 131126 in all states (New Zealand Dial 0800764766)

**Signs and Symptoms of exposure:****Acute:**

Eyes; Contact with eyes causes severe irritation and pain. Burns of the eye may cause blindness.

Inhalation; Toxic if inhaled. Vapours may be corrosive to upper respiratory tract. Can cause severe respiratory tract burns. Ingestion; Harmful if swallowed. Can cause severe burns of the mouth and throat as well as perforation of the esophagus and stomach.

Skin Contact; Corrosive. Harmful to skin. May cause skin burns. May cause sensitisation.

**Chronic:** for each potential route of exposure. (Possible Longer Term Effects)

Repeated and/or prolonged exposures may result in: adverse eye effects (such as conjunctivitis or corneal damage).

Effects from inhalation of vapours may be delayed.

**SUSPECTED CANCER AGENT?**

**NO:** This product's ingredients are not found in the lists below.

YES: \_\_\_\_\_ Federal OSHA \_\_\_\_\_ NTP \_\_\_\_\_ IARC

**5. FIRE FIGHTING MEASURES**

**Flash Point,°C (give method) :** 94°C

**Auto ignition temperature,°C:** N/A

**Flammable limits in air, volume %:** Lower (LEL) N/A Upper (UEL) N/A

Fire extinguishing materials:

water spray       carbon dioxide      \_\_\_\_\_ other: Alcohol Foam  
 foam       dry chemical

Ignition will give rise to a Class B fire. In case of fire use: Water Streams

**Special firefighting procedures:** Fire fighters should wear butyl rubber boots, gloves and body suit and a self-contained breathing apparatus. If water pollution occurs, notify appropriate authorities.

**Unusual fire and explosion hazards:** May generate toxic or irritating combustion products. Sudden reaction and fire may result if product is mixed with an oxidizing agent. May emit oxides of carbon and nitrogen. Personnel in vicinity and downwind should be evacuated.

**6. ACCIDENTAL RELEASE MEASURES**

**Spill response procedures (include employee protection measures):** Wear goggles and face shield. Stop the leak, if possible. Ventilate the space involved. Reduce vapour spreading with a water spray. Shut off or remove all ignition sources. Construct a dike to prevent spreading (includes molten liquids until they freeze). Collect run-off water and transfer to drums or tanks for later disposal.

**Preparing wastes for disposal (container types, neutralization, etc.):** Wear goggles and face shield. If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for later disposal. Place in metal containers for recovery or disposal. Flush area with water spray. Clean-up personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with a vacuum truck.

**NOTE:** Spills or accidental release of this product should be handled by containment, collection and subsequent safe disposal. Dispose of all wastes in accordance with federal, state and local regulations.

----- 7. HANDLING AND STORAGE -----

Handle with suitable personal protective equipments

Avoid eye or skin contact

Keep away from: acids, oxidizers. Keep in cool, dry, ventilated storage and in closed and free from leak containers. Product may partially freeze with extended exposure to cold temperatures. Product should be stored at temperature above 5°C.

----- 8. EXPOSURE CONTROLS & PERSONAL PROTECTION-----

No OEL standards for this product have been established or not found in our records. The standard for some of the ingredients has been set:

Substance	TWA	STEL
Tall oil fatty acids reaction product with Tetraethylene pentamine	N/A	N/E
Phenol, 4-Nonyl-,Branched	N/A	N/E
m-Xylene-.a., .a.'-	0.1mg/m3	N/E
N-(aminoethyl)piperazi	N/A	N/E
Tetraethylpentamine	N/A	N/E
Benzyl alcohol	N/A	N/E

**Ventilation and engineering controls:** If used externally natural ventilation is generally adequate. General ventilation should be adequate Ventilate confined small spaces where mists or airborne particle levels are excessive or uncomfortable.

**Respiratory protection (type):** No respiratory protection is should be required if good ventilation is maintained. Use respirators fitted with organic vapour filters to AS1715 & AS1716 in areas with high vapour concentrations.

**Eye protection (type):** Use full face shield with a chemical goggle or safety glasses with side shields or safety glass to AS1337. Chemical goggles must be worn.

**Gloves (specify material):** Use impervious gloves, nitrile, butyl-rubber to AS2161.2. The breakthrough time of the selected gloves must be greater than the intended use period. In emergency situations, wear impermeable gloves with cuffs to prevent spread of materials to area above the wrists.

**Other clothing and equipment:** Wear long-sleeved, body covering impervious clothing, slicker suits, rubber suits (rain gear) overalls and rubber boots.

**Work practices, hygienic practices:** Wash at the end of each work shift and before eating, smoking or using the toilet. Launder or discard contaminated clothing. Familiarize the employees with the handling procedures in this section; also encourage prompt removal of contaminated clothing and clearing of contaminated areas. Examine protection equipment for defects and discard if required.

----- 9. PHYSICAL AND CHEMICAL PROPERTIES-----

<b>Vapor density (air=1):</b>	N/A	<b>Melting point or range, °C:</b> > 0 °C
<b>Specific gravity:</b>	1.5	<b>Boiling point or range, °C:</b> >100 °C
<b>Solubility in water:</b>	Negligible	<b>Evaporation rate (butyl acetate = 1):</b> N/A
<b>Vapor pressure, mmHg at 21°C:</b>	N/A	<b>VOC:</b> <1%
<b>Appearance and odor:</b>	Red Paste	

**HOW TO DETECT THIS SUBSTANCE (warning properties of substance as a gas, vapor, dust, or mist):** N/A



----- 14. TRANSPORT INFORMATION -----

Regulatory information	UN/NA number	Proper shipping name	Classes/*PG
CFR	2815	N-AMINOETHYL PIPERAZINE	Class 8 III
IMO/IMDG	2815	N-AMINOETHYL PIPERAZINE	Class 8 III
IATA(Cargo)	2815	N-AMINOETHYL PIPERAZINE	Class 8 III

Other Requirements

This product is a solid.

For DOT Non- Bulk- Inner Packaging not over 5 kg (11 lbs) for solids packed in strong outer packaging are marked as "ORM-D" Consumer Commodity. For packaging over 5 kg (11 lbs) for solids, must be labelled Corrosive with Proper Shipping Name.

For IMDG Non Bulk- Must be labelled Corrosive with Proper Shipping Name

ICAO/IATA REGULATED Do not ship by air

----- 15. REGULATORY INFORMATION -----

All ingredients are listed on the U.S. EPA TSCA inventory of chemical substances.

International regulations

Chemical inventories

- Europe inventory All components are listed or exempted.
- Australia inventory (AICS) All components are listed or exempted.
- China inventory (IECSC) All components are listed or exempted.
- Japan inventory (ENCS) All components are listed or exempted.
- Japan inventory (ISHL) Not determined.
- Korea inventory (KECI) All components are listed or exempted.
- New Zealand Inventory (NZIoC) Not determined.
- Philippines inventory (PICCS) All components are listed or exempted.
- United States inventory (TSCA 8b) All components are listed or exempted.
- Canada inventory All components are listed or exempted.

Hazardous Material  
Information System  
III (U.S.A.)

Health : 3  
Flammability : 1  
Physical Hazards : 0  
Chronic : \*

----- 16. OTHER INFORMATION -----

This information is furnished without warranty, representation, inducement or license of any kind; except that it is accurate to the best of our knowledge, or obtained from sources believed by us to be accurate. Persons dealing with the products referred to in this MSDS do so at their own risk since their actions are beyond our control. Laticrete Pty Ltd accepts no liability whatsoever for damage or injury arising from the use of the information contained in this document. This document should be made available to all operators who may come into contact with this product.

## ----- 1. PRODUCT IDENTIFIER &amp; IDENTITY FOR THE CHEMICAL -----

**TRADE NAME (as labelled):** LATAPOXY<sup>®</sup> 310 Stone Adhesive Part B

**Chemical Family:** Epoxy Resin.

**MANUFACTURERS NAME:** LATICRETE Pty Ltd.  
29 Telford Street,  
Virginia, QLD 4012

**For additional information:** 1800331012, 07 38651599

**Poisons information number:** 131126

**Date prepared or revised:** 08/05/12

## ----- 2. HAZARD IDENTIFICATION -----

**Classification: Hazardous Substance .Dangerous substance** according to the criteria of the NOHSC and ADG code. Not classified as a scheduled poison according to the SUSDP.

**Risk Phrases:** Xi, irritant, R36 - Irritating to eyes, R38 - Irritating to skin, R43 - May cause sensitisation by skin contact.

**Safety Phrases:** S2 - Keep out of reach of children, S24 - Avoid contact with skin. S25 - Avoid contact with eyes. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 - After contact with skin wash immediately with plenty of soap suds. S37/39 - Wear suitable gloves and eye/face protection.

## -----3. COMPOSITION / INFORMATION ON INGREDIENTS-----

Chemical Name	CAS Numbers	Percent
Propane, 2,2bis[p-(2,3-epoxypropoxy)phenyl]-polymers	25085-99-8	19-27
Alkyl(C12-14) glycidyl ether	68609-97-2	3-7
Reaction product: Bisphenol F – (epichlorhydrin); epoxy	25064-14-4	4-9
Other ingredients determined not to be hazardous	-	To 100

**N/A= Not Applicable or Not Available**

## -----4. FIRST AID MEASURES-----

**EYE CONTACT:** Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

**SKIN CONTACT:** Remove product from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists.

**INHALATION:** If inhaled, remove patient to fresh air. If breathing has stopped or is laboured give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Prevent aspiration of vomit. Turn victim's head to the side. Seek medical advice.

**INGESTION:** Drink large quantities of water and consult a physician

**Notes to Physician:** Suggested treatment for acute symptoms, known antidotes – Provide care and treatment based on the patients reaction to the exposure. For further information contact the Poisons Information centre 131126 in all states (New Zealand dial 0800764766.

**First aid facilities:** Provide normal industrial first aid facilities, eye wash station and safety showers as appropriate.

**SYMPTOMS OF OVEREXPOSURE** for each potential route of exposure.

Inhaled: May cause irritation of the respiratory tract

Contact with eyes or skin: May cause eye irritation. Corneal injury is unlikely. Vapour may cause eye irritation experienced as mild discomfort and redness. A component of this mixture has caused allergic skin reaction in humans. Contains component(s) which have caused allergic skin sensitisation in guinea pigs.

Repeated and/or prolonged exposures may result in: adverse eye effects (such as conjunctivitis or corneal damage).

Effects from inhalation of vapours may be delayed.

Absorbed through skin: N/A and unlikely

Swallowed: N/A and unlikely

SUSPECTED CANCER AGENT?

X\_NO: This product's ingredients are not found in the lists below.

YES: \_\_\_\_\_ Federal OSHA \_\_\_\_\_ NTP \_\_\_\_\_ IARC

## ----- 5. FIRE FIGHTING MEASURES -----

**Flash Point,<sup>o</sup>C (give method) :** 254<sup>o</sup>C

**Auto ignition temperature,<sup>o</sup>C:** N/A

**Flammable limits in air, volume %:** Lower (LEL) N/A Upper (UEL) N/A

**Fire extinguishing materials:**

x \_\_\_\_\_ water spray      x \_\_\_\_\_ carbon dioxide      \_\_\_\_\_ other: Alcohol Foam  
 \_\_\_\_\_ foam                      x \_\_\_\_\_ dry chemical

**Special fire fighting procedures:** Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize properly damage. Water fog, applied gently may be used as a blanket for fire extinguishment. Contain fire water run-off if possible, Firewater run-off, if not contained, may cause environmental damage.

Review the "Accidental Release Measures" and the "Ecological Information" sections of this MSDS. Wear positive pressure self-contained breathing apparatus.

**Unusual fire and explosion hazards:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Phenolics. Carbon monoxide. Carbon dioxide.

## ----- 6. ACCIDENTAL MEASURES -----

**Spill response procedures (include employee protection measures):** Wear goggles and face shield. Stop the leak, if possible. Ventilate the space involved if required. Absorb with material such as sand, polyethylene fibre products. Remove residual with soap and hot water. Residual can be removed with solvent. Solvents are not recommended for clean-up unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed.

**Preparing wastes for disposal (container types, neutralization, etc):** Wear goggles and face shield. Transfer to containers for later disposal. Place in metal containers for recovery or disposal.

**NOTE:** Dispose of all wastes in accordance with federal, state and local regulations.

## -----7. HANDLING AND STORAGE-----

Handle with suitable personal protective equipment. Avoid skin or eye contact.

When using do not eat, drink or smoke.

Store in cool areas. Excess heating over long periods of time degrades the resin.

## -----8. EXPOSURE CONTROLS AND PERSONAL PROTECTION -----

No OEL standards for this product have been established or not found in our records. The standard for some of the ingredients has been set:

Substance	TWA	STEL
Propane,2,2-bis[p-(2,3-epoxypropoxy)phenyl]-polymers	N/A	Not established
Alkyl(C12-14) glycidyl ether	N/A	Not established
Reaction product: Bisphenol F- (epichlorhydrin); epoxy	N/A	Not established

**Ventilation and engineering controls:** Normal

**Respiratory protection (type):** No respiratory protection should be required if good ventilation is maintained. In poorly ventilated areas, use respirators fitted with organic vapour filters to AS1715 & AS1716 in areas with high vapour concentrations.

**Eye protection (type):** Use chemical goggle or safety glasses with side shields or safety glasses to AS1337.

**Gloves (specify materials):** Use impervious gloves, nitrile, butyl-rubber to AS2161.2.

**Other clothing and equipment:** Wear long sleeved body covering clothing and boots.

**Work practices, hygienic practices:** Wash at the end of each work shift and before eating, smoking or using the toilet. Launder contaminated clothing. Familiarise the employees with the handling procedures in this section; also encourage prompt removal of contaminated clothing and clearing of contaminated areas. Examine protection equipment for defects and discard if required.

**Other handling and storage requirements:** N/A

**Protective measures during maintenance of contaminated equipment:** See above.

## -----9. PHYSICAL AND CHEMICAL PROPERTIES -----

<b>Vapor density (air=1):</b>	N/A	<b>Melting point or range, °C:</b>	N/A
<b>Specific gravity:</b>	1.5	<b>Boiling point or range, °C:</b>	>93
<b>Solubility in water:</b>	Insoluble	<b>Evaporation rate (butyl acetate = 1):</b>	N/A
<b>Vapor pressure, mmHg at 20°C:</b>	N/A		
<b>Appearance and odor:</b>	Off White Paste		

N/A =Not applicable or Not available

**HOW TO DETECT THIS SUBSTANCE (warning properties of substance as a gas, vapor, dust, or mist):** N/A



## ----- 10. STABILITY AND REACTIVITY-----

Stability:  Stable  Unstable

**Conditions to avoid:** Stable at ambient temperatures. Excess heating over long period of time may degrade resin.

**Incompatibility (materials to avoid):** Contact with acids, oxidizing materials, bases, accidental contact with amines.

**Hazardous decomposition products (including combustion products):** (from burning, heating, or reaction with other materials). Combustion products may include and are not limited to; Phenolics, Carbon Monoxide and Carbon Dioxide. Thermal decomposition should be treated as a potentially hazardous substance.

**Hazardous polymerization:**  May occur  Will not occur

**Conditions to avoid:** N/A

## ----- 11. Toxicology Information-----

Acute Dermal Toxicity (LD50, Rabbit) >2,000 mg/kg  
Single dose oral LD50, Rat > 2,000 mg/kg

## ----- 12. Ecological Information-----

**Movement & Partitioning**

Bio-concentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Potential for mobility in soil is low (Koc between 500 and 2000). Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

**Eco-toxicity**

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested). Toxicity to aquatic species occurs at concentrations above material's water solubility.

**Fish Acute & Prolonged Toxicity**

LC50, fathead minnow (Pimephales promelas), static, 96 h: 3.1 mg/l

**Aquatic Invertebrate Acute Toxicity**

EC50, water flea Daphnia magna, static, 48 h, immobilization: 1.4 - 1.7 mg/l

NOEC, water flea Daphnia magna, static renewal, 21 d, survival: 0.3 mg/l

**Aquatic Plant Toxicity**

ErC50, Scenedesmus capricornutum (fresh water algae), static, Growth rate inhibition, 72 h: >11 mg/l

**Toxicity to Micro-organisms**

IC50: bacteria. 18 h: > 42.6 mg/l

## ----- 13. Disposal Considerations-----

Dispose in compliance with local, state, and federal regulations. Spilled product can be recovered and re-used.

## ----- 14. Transport Information-----

Proper Shipping Name: Environmentally Hazardous Substance Liquid, n.o.s. - Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers and Bisphenol F-(epichlorhydrin); epoxy resin) 9

UN3082 PG III

EMS Number: F-A,S-F

Marine pollutant.: Yes

For DOT non-bulk, the Marine Pollutant and Class 9 label is not required on a combination packaging for solids, inner packaging not over 5kgs net capacity each packed in strong outer packaging. If the package exceeds 5kgs, the Marine Pollutant and Class 9 Label must be applied along with the Proper Shipping Name and UN number.

For IMDG non-bulk, the Marine Pollutant and Class 9 label is not required on a combination packaging for solids, inner packaging not over 5kgs net capacity each packed in strong outer packaging, and the limited quantity Diamond Label must be applied to the package. If the package exceeds 5kg the Marine Pollutant and Class 9 Label must be applied along with the proper shipping name but no Limited Quantity Diamond Label and UN number. If so the Marine Pollutant and Class 9 Label must be applied along with the Proper Shipping Name but no Limited Quantity Diamond Label and UN number.

ICAO/IATA REGULATED Do not ship by air

----- **15. REGULATORY INFORMATION** -----

All ingredients are listed on the U.S. EPA TSCA inventory of chemical substances.

Immediate (Acute) Health Hazard Yes  
Delaved (Chronic) Health Hazard No  
Fire hazard No  
Reactive Hazard No  
Sudden Release of Pressure Hazard No  
W.H.M.I.S. Code: D.2

Label in accordance with the National Code of Practice for the Labeling of Workplace Substance (NOHSC: 2012 (1994)):  
Labeling under the SUSDP or the ADG Code is not required.

----- **16. Other Information** -----

This information is furnished without warranty, representation, inducement or license of any kind; except that it is accurate to the best of our knowledge, or obtained from sources believed by us to be accurate. Person dealing with the products referred to in this MSDS do so at their own risk since their actions are beyond our control. Laticrete Pty Ltd accepts no liability whatsoever for damage or injury arising from the use of the information contained in this document. This document should be made available to all operators who may come into contact with this product.