

**LINE-X XS-190 AU RESIN**

Version	Revision Date:	SDS Number:	Date of last issue:
1.0	04/15/2021	XS-190 AU Resin	22.05.2018

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : LINE-X XS-190 AU RESIN

**Manufacturer or supplier's details**

Company : LINE-X Australia and New Zealand

Address : 2/45 Hensbrook Loop, Forrestdale, WA, 6112  
PO Box 4060 Harrisdale WA 6112

Telephone : +61 1300 559 597

EH&S E-mail address : [productsafety@linex.com](mailto:productsafety@linex.com)Emergency telephone number : CHEMTREC US: 800-424-9300  
CHEMTREC INTL: 703-527-3887**Recommended use of the chemical and restrictions on use**

Recommended use : Component of a Polyurethane System.

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Serious eye damage/eye irritation : Category 2A

Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Pancreas, Liver, Kidney)

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.  
H373 May cause damage to organs (Pancreas, Liver, Kidney) through prolonged or repeated exposure if swallowed.

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H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 Wash skin thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear eye protection/ face protection.  
**Response:**  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P314 Get medical advice/ attention if you feel unwell.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P391 Collect spillage.  
**Storage:**  
 Not available  
**Disposal:**  
 P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

**Other hazards which do not result in classification**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
diethylmethylenediamine	68479-98-1	>= 10 - < 30

**SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.  
 Show this safety data sheet to the doctor in attendance.  
 Treat symptomatically.  
 Get medical attention if symptoms occur.

If inhaled : If inhaled, remove to fresh air.  
 Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
 Remove contact lenses.  
 Keep eye wide open while rinsing.  
 If eye irritation persists, consult a specialist.

If swallowed : Induce vomiting immediately and call a physician.  
 Keep respiratory tract clear.

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Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed : None known.

Notes to physician : Treat symptomatically.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NOx)

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Wear self-contained breathing apparatus for firefighting if necessary.

Hazchem Code : •3Z

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE



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- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Keep in properly labelled containers.
- Materials to avoid : For incompatible materials please refer to Section 10 of this SDS.
- Further information on storage stability : Stable under normal conditions.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.  
Refer to Australian/New Zealand Standard AS/NZS 1715 and AS/NZS 1716 for guidance on selection and use of respiratory devices.
- Hand protection  
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.  
Refer to Australian/New Zealand Standard AS/NZS 2161.1: 2000 for guidance on selection and use of protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.  
Refer to Australian/New Zealand Standard AS/NZS 1337:1992 for guidance on selection and use of protective eyewear.
- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Colour	: amber
Odour	: No data is available on the product itself.
Odour Threshold	: No data is available on the product itself.
pH	: No data is available on the product itself.
Freezing point	: No data is available on the product itself.
Melting point	: No data is available on the product itself.
Boiling point	: No data is available on the product itself.
Flash point	: > 115 °C Method: open cup
Evaporation rate	: No data is available on the product itself.
Flammability (solid, gas)	: No data is available on the product itself.
Flammability (liquids)	: No data is available on the product itself.
Upper explosion limit / Upper flammability limit	: No data is available on the product itself.
Lower explosion limit / Lower flammability limit	: No data is available on the product itself.
Vapour pressure	: No data is available on the product itself.
Relative vapour density	: No data is available on the product itself.
Relative density	: 1
Density	: No data is available on the product itself.
Solubility(ies)	
Water solubility	: No data is available on the product itself.
Solubility in other solvents	: No data is available on the product itself.
Partition coefficient: n-octanol/water	: No data is available on the product itself.
Auto-ignition temperature	: No data is available on the product itself.
Thermal decomposition	: No data is available on the product itself.
Self-Accelerating decomposition temperature	: No data is available on the product itself.

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(SADT)

Viscosity

Viscosity, dynamic : 500 - 800 mPa.s ( 25 °C)

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Particle size : No data is available on the product itself.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No hazards to be specially mentioned.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition products : carbon dioxide  
carbon monoxide**SECTION 11. TOXICOLOGICAL INFORMATION**

Exposure routes : No data is available on the product itself.

**Acute toxicity**Acute oral toxicity - Product : Acute toxicity estimate : > 2,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : No data available

**Components:**

diethylmethylbenzenediamine:

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

Acute toxicity (other routes of administration) : No data available

**Skin corrosion/irritation****Product:**

Remarks: The product is not considered as being a skin irritant.

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**Serious eye damage/eye irritation****Product:**

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

**Respiratory or skin sensitisation****Product:**

Remarks: No data available

Assessment: No data available

**Chronic toxicity****Germ cell mutagenicity****Components:**

diethylmethylbenzenediamine:

Genotoxicity in vitro : Metabolic activation: negative  
Method: OECD Test Guideline 476  
Result: negative

**Components:**

diethylmethylbenzenediamine:

Genotoxicity in vivo : Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

**Carcinogenicity****Components:**

diethylmethylbenzenediamine:

Species: Rat, male and female  
Application Route: Oral  
Exposure time: 24 month(s)  
Dose: 1.8 - 3.2 mg/kg  
Frequency of Treatment: 7 daily  
Method: OECD Test Guideline 451  
Result: negative

Carcinogenicity - Assessment : No data available

**Reproductive toxicity**

Effects on fertility : No data available

Effects on foetal development : No data available

Reproductive toxicity - Assessment : No data available

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**STOT - single exposure**

No data available

**STOT - repeated exposure****Components:**

diethylmethylbenzenediamine:

Exposure routes: Ingestion

Target Organs: Pancreas, Liver, Kidney

Assessment: May cause damage to organs through prolonged or repeated exposure.

**Repeated dose toxicity****Components:**

diethylmethylbenzenediamine:

Species: Rat, male and female

NOAEL: 8 - 10 mg/kg

Application Route: Ingestion

Exposure time: 2,160 h

Method: Subchronic toxicity

Repeated dose toxicity - : No data available  
Assessment**Aspiration toxicity**

No data available

**Experience with human exposure**

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

**Toxicology, Metabolism, Distribution**

No data available

**Neurological effects**

No data available

**Further information****Product:**

Remarks: No data available



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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:**

diethylmethylbenzenediamine:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 200 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: DIN 38412

**Components:**

diethylmethylbenzenediamine:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: Directive 67/548/EEC, Annex V, C.2.

**Components:**

diethylmethylbenzenediamine:

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): ca. 104 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

**Components:**

diethylmethylbenzenediamine:

M-Factor (Acute aquatic toxicity) : 1  
Toxicity to fish (Chronic toxicity) : No data available  
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available  
M-Factor (Chronic aquatic toxicity) : No data available

**Components:**

diethylmethylbenzenediamine:

Toxicity to microorganisms : EC50 (Pseudomonas putida):  $\geq$  170 mg/l  
Exposure time: 24 h  
Test Type: static test  
Test substance: Fresh water

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Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment  
Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

**Persistence and degradability****Components:**

diethylmethylbenzenediamine:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: < 60 %  
Exposure time: 28 d

Result: Not readily biodegradable.  
Biodegradation: < 1 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon (DOC) : No data available

Physico-chemical removability : No data available

Stability in water : No data available

**Components:**

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diethylmethylbenzenediamine:  
 Photodegradation : Test Type: Air  
 Rate constant: < .00001

Impact on Sewage : No data available  
 Treatment

**Bioaccumulative potential**
**Components:**

diethylmethylbenzenediamine:  
 Bioaccumulation : Bioconcentration factor (BCF): 13.82  
 Remarks: Bioaccumulation is unlikely.

Bioconcentration factor (BCF): 2.75  
 Remarks: Does not bioaccumulate.

**Components:**

diethylmethylbenzenediamine:  
 Partition coefficient: n- : log Pow: 1.17 (25 °C)  
 octanol/water Method: OECD Test Guideline 107

**Mobility in soil**

Mobility : No data available

**Components:**

diethylmethylbenzenediamine:  
 Distribution among : Koc: 132 - 170  
 environmental compartments Koc: 31.72 - 551

Stability in soil : No data available

**Other adverse effects**

Environmental fate and : No data available  
 pathways

Results of PBT and vPvB : No data available  
 assessment

Endocrine disrupting : No data available  
 potential

Adsorbed organic bound : No data available  
 halogens (AOX)

**Hazardous to the ozone layer**

Ozone-Depletion Potential Not applicable

Additional ecological : There is no data available for this product.  
 information - Product

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An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

Global warming potential (GWP) : No data available

**SECTION 13. DISPOSAL CONSIDERATIONS**
**Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
Dispose of as hazardous waste in compliance with local and national regulations.  
Dispose of contents/ container to an approved waste disposal plant.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION**
**International Regulations**
**IATA**

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(DIETHYLTOLUENEDIAMINE)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964

**IMDG**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(DIETHYLTOLUENEDIAMINE)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes



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### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### ADG

UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIETHYLTOLUENEDIAMINE)
Class	: 9
Packing group	: III
Labels	: 9
Hazchem Code	: •3Z

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform Scheduling of Medicines and Poisons : No poison schedule number allocated

Australia Work Health and Safety Regulations - Schedule 10 Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. : There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

### The components of this product are reported in the following inventories:

CH INV	: The formulation contains substances listed on the Swiss Inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: Notified. Allowed to be imported / manufactured only by the notifiers. Please contact your LiquiMix sales representative for more information.
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

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TCSI : On the inventory, or in compliance with the inventory

TSCA : On the inventory, or in compliance with the inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**SECTION 16. OTHER INFORMATION**

Revision Date :15/04/2021  
Date format dd.mm.yyyy

**DISCLAIMER**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.