



Safety Data Sheet

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LOC 25ML EPXY GEL SYRNG PTB

MSDS-No. : 352937

V001.0

Date of issue: 03.07.2015

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOC 25ML EPXY GEL SYRNG PTB

Intended use: Epoxy Hardener

Supplier:
Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>
Skin corrosion	Category 1B
Serious eye damage/eye irritation	Category 1
Skin sensitizer	Category 1
Germ cell mutagenicity	Category 2

Hazard pictogram:



Signal word: Danger

Hazard statement(s):	H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.
Precautionary Statement(s):	
Prevention:	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response:	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/ shower. P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Get immediate medical advice/attention. P308+P313 IF exposed or concerned: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse.
Storage:	P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Classification of material C - Corrosive

Risk phrases:

R20/22 Harmful by inhalation and if swallowed.
R34 Causes burns.
R68 Possible risk of irreversible effects.
R43 May cause sensitisation by skin contact.

Safety phrases:

S24/25 Avoid contact with skin and 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 water.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S46 If swallowed, seek medical advice immediately and show this container or label.
S60 This material and its container must be disposed of as hazardous waste.

Dangerous Goods information:

Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Signal word:

HAZARDOUS

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
m-Phenylenebis(methylamine)	1477-55-0	10- 30 %
2,4,6-Tris(dimethylaminomethyl)phenol	90-72-2	< 10 %
Phenol	108-95-2	< 3 %
non hazardous ingredients~		60- 100 %

Section 4. First aid measures

Ingestion:	Do not induce vomiting. Have victim rinse mouth thoroughly with water. Seek medical advice.
Skin:	In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Seek medical attention from a specialist.
Eyes:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention from a specialist.
Inhalation:	Move to fresh air. Keep warm and in a quiet place. Seek medical advice.
First Aid facilities:	Eye wash and safety shower Normal washroom facilities
Medical attention and special treatment:	Treat symptomatically.

Section 5. Fire fighting measures

Suitable extinguishing media:	Carbon dioxide, foam, powder Fine water spray
Improper extinguishing media:	Water spray jet
Decomposition products in case of fire::	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Oxides of nitrogen.
Special protective equipment for fire-fighters:	Wear protective equipment. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
Additional fire fighting advice:	In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains.
Hazchem code:	2X

Section 6. Accidental release measures

Personal precautions:	Danger of slipping on spilled product. Ensure adequate ventilation. Avoid skin and eye contact. Wear impervious gloves and chemical splash goggles.
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Collect spilled material with an inert absorbent such as sand or vermiculite. Place in

properly labeled closed container.
Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Precautions for safe handling: Gloves and safety glasses should be worn
Avoid skin and eye contact.
Ensure that workrooms are adequately ventilated.
Avoid breathing vapors or mists of this product.

Conditions for safe storage: Keep container tightly sealed.
Store in a cool, dry, well-ventilated area.
Protect from direct sunlight.

Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
M-XYLENE ALPHA,ALPHA-DIAMINE 1477-55-0		-			0.1	-	-
PHENOL 108-95-2		1	4	-	-	-	-

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Eye protection: For eye protection, use tightly fitted safety goggles and a face-shield

Skin protection: Use of protective coveralls and long sleeves is recommended.
Suitable protective gloves.

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Respiratory protection: If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

Appearance: Translucent, Amber
Liquid, gel

Odor: Mercaptan

Specific gravity: 1.4

Flash point: > 93 °C (> 199.4 °F)
(Tagliabue closed cup)

VOC content: 0.11 % 1.13 g/l

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid:	Heat, flames, sparks and other sources of ignition. Elevated temperatures. Store away from incompatible materials.
Incompatible materials:	Acids. Oxidizing agents. Alkalis.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Oxides of nitrogen.
Hazardous polymerization:	None under normal processing.

Section 11. Toxicological information

Health Effects:	
Ingestion:	Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if swallowed.
Skin:	Corrosive to skin. Symptoms may include redness, burning, drying, cracking and skin burns. May cause skin sensitization.
Eyes:	Causes serious eye damage. Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Inhalation:	Inhalation of vapors or mist can cause severe irritation, tissue and scarring of the respiratory tract.
Chronic effects:	
Phenol 108-95-2:	Gastrointestinal and nerval disturbances, damage to the liver and kidneys, skin changes. Limited data available on chronic effects of phenol in humans from oral, dermal or inhalation exposure indicated reduced spontaneous activity, muscle weakness, pain and disordered cognitive capacities. Animal studies have also reported dysfunctions of the nervous system including tremor, convulsions, loss of co-ordination, paralysis, reduced motor and spontaneous activity, and reduced body temperature. Insufficient data on suspected carcinogenic potential.
Mutagenicity:	Suspected of causing genetic defects.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
m- Phenylenebis(methylamin e) 1477-55-0	LD50 LC50	980 mg/kg 1.16 mg/l	oral inhalation	4 h	rat rat	OECD Guideline 403 (Acute Inhalation Toxicity)
2,4,6- Tris(dimethylaminomethy l)phenol 90-72-2	Acute toxicity estimate (ATE) LD50 LD50 LC0	1,378 mg/kg 1,378 - 1,968 mg/kg	oral oral dermal		rat rat	Expert judgement OECD Guideline 401 (Acute Oral Toxicity)
Phenol 108-95-2			inhalation	8 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2,4,6- Tris(dimethylaminomethy l)phenol 90-72-2	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Phenol 108-95-2	corrosive	3 min		

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Phenol 108-95-2	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
m- Phenylenebis(methylamin e) 1477-55-0	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2,4,6- Tris(dimethylaminomethy l)phenol 90-72-2	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
m- Phenylenebis(methylamin e) 1477-55-0	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		
Phenol 108-95-2	positive	in vitro mammalian cell micronucleus test	with and without		

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
m- Phenylenebis(methylamin e) 1477-55-0	LOAEL=>= 600 mg/kg	oral: gavage	28 daysdaily	rat	Guidelines for 28-Day Repeat Dose Toxicity Test (Japan)

Section 12. Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
m-Phenylenebis(methylamine) 1477-55-0	LC50	> 100 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
m-Phenylenebis(methylamine) 1477-55-0	EC50	16 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
m-Phenylenebis(methylamine) 1477-55-0	EC50	33.3 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
m-Phenylenebis(methylamine) 1477-55-0	NOEC	22.9 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,4,6- Tris(dimethylaminomethyl)ph enol 90-72-2	LC50	153 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	ISO 7346-1 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish [Brachydanio rerio Hamilton- Buchanan (Teleostei, Cyprinidae)])
Phenol 108-95-2	LC50	21.93 mg/l	Fish	14 d	Poecilia reticulata	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Phenol 108-95-2	LC50	24.9 mg/l	Fish	96 h	Pimephales promelas	
Phenol 108-95-2	EC50	3.1 mg/l	Daphnia	48 h	Ceriodaphnia dubia	
Phenol 108-95-2	EC50	61.1 mg/l	Algae	96 h	Pseudokirchnerella subcapitata (reported as Selenastrum capricornutum)	

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Phenol 108-95-2	readily biodegradable	aerobic	62 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
2,4,6- Tris(dimethylaminomethyl)ph enol 90-72-2	-0.66				21.5 °C	EPA OPPTS 830.7550 (Partition Coefficient, n- octanol / H ₂ O, Shake Flask Method)
Phenol 108-95-2		17.5	5 h	Danio rerio (reported as Brachydanio rerio)	25 °C	OECD Guideline 305 E (Bioaccumulation: Flow- through Fish Test)
Phenol 108-95-2	1.47				30 °C	OECD Guideline 117 (Partition Coefficient (n- octanol / water), HPLC Method)

Section 13. Disposal considerations

- Waste disposal of product:** Dispose of as hazardous waste in compliance with local and national regulations. Do not allow product to enter sewer or waterways.
- Disposal for uncleaned package:** Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road and Rail Transport:

- Dangerous Goods information:** Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).
- UN no.:** 2735
- Proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Aliphatic amines)
- Class or division:** 8
- Packing group:** II
- Hazchem code:** 2X
- Emergency information:** Refer to the Dangerous Goods - Initial Emergency Response Guide HB 76.

Marine transport IMDG:

- UN no.:** 2735
- Proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Aliphatic amines)
- Class or division:** 8
- Packing group:** II
- EmS:** F-A ,S-B
- Seawater pollutant:** -

Air transport IATA:

- UN no.:** 2735
- Proper shipping name:** Amines, liquid, corrosive, n.o.s. (Aliphatic amines)
- Class or division:** 8
- Packing group:** II
- Packing instructions (passenger):** 851
- Packing instructions (cargo):** 855

Section 15. Regulatory information

- SUSMP Poisons Schedule** 5
- AICS:** All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

Section 16. Other information

- Abbreviations/acronyms:** ADGC - Australian Dangerous Goods Code
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

- Reason for issue:** First issue. involved chapters: 1 - 16

Disclaimer:

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