

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### 1.1 Product identifier

**Product name** LOCTITE EA 934NA PART B KNOWN AS HYSOL EA 934 NA PART B  
**Synonym(s)** NSN: 8040-66-114-6419  
237764 - MSDS NUMBER • 934NA QT SYSTEM PART B • AS9174016 - PRODUCT CODE • EA 934NA QT SYSTEM PART B • HYSOL EA 934 NA PART B (FORMERLY)

### 1.2 Uses and uses advised against

**Use(s)** HARDENER FOR EPOXY RESIN SYSTEM • TWO COMPONENT EPOXY SYSTEM  
Part B of 2-Component Epoxy Adhesive.

### 1.3 Details of the supplier of the safety data sheet

**Supplier name** HENKEL AUSTRALIA PTY LTD  
**Address** 135 - 141 Canterbury Rd, Kilsyth, VIC, Australia, 3137  
**Telephone** (03) 9724 6444  
**Fax** (03) 9728 5877  
**Email** msds@au.henkel.com  
**Website** <http://www.loctite.com.au>

### 1.4 Emergency telephone number(s)

**Emergency** 1800 032 379; (03) 9724 6556

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**GHS Classification(s)** Skin Corrosion/Irritation: Category 1B  
Skin Sensitisation: Category 1  
Serious Eye Damage / Eye Irritation: Category 1  
Aquatic Toxicity (Chronic): Category 2

### 2.2 Label elements

**Signal word**

**DANGER**

**Pictograms**



**Hazard statement(s)**

H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H411 Toxic to aquatic life with long lasting effects.

**Prevention statement(s)**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
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/face protection.

**Response statement(s)**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

**Product name**                    **LOCTITE EA 934NA PART B KNOWN AS HYSOL EA 934 NA PART B**

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

P310                            Immediately call a POISON CENTER or doctor/physician.

P321                            Specific treatment is advised - see first aid instructions.

P333 + P313                If skin irritation or rash occurs: Get medical advice/attention.

P363                            Wash contaminated clothing before reuse.

P391                            Collect spillage.

**Storage statement(s)**

P405                            Store locked up.

**Disposal statement(s)**

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

**2.3 Other Hazards**

No information provided.

**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

**3.1 Substances / Mixtures**

Ingredient	CAS number	EC number	Content
DIETHYLENETRIAMINE	111-40-0	203-865-4	10 - 30%
TRIETHYLENETETRAMINE (TETA)	112-24-3	203-950-6	<5%
FATTY ACIDS, C18-UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE	68082-29-1	500-191-5	>60%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	remainder

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

**Eye**                            If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

**Inhalation**                If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.

**Skin**                            If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

**Ingestion**                For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

**First aid facilities**        Eye wash facilities and safety shower should be available.

**4.2 Most important symptoms and effects, both acute and delayed**

No information provided.

**4.3 Immediate medical attention and special treatment needed**

Treat symptomatically.

**5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

**5.2 Special hazards arising from the substance or mixture**

Combustible. May evolve toxic gases (carbon/ nitrogen oxides, amines, ammonia, hydrocarbons) when heated to decomposition.

**5.3 Advice for firefighters**

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**Product name**                    **LOCTITE EA 934NA PART B KNOWN AS HYSOL EA 934 NA PART B**

**5.4 Hazchem code**

2X

2            Fine Water Spray.

X            Wear liquid-tight chemical protective clothing and breathing apparatus. Contain spill and run-off.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

**6.2 Environmental precautions**

Prevent product from entering drains and waterways.

**6.3 Methods of cleaning up**

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition.

**6.4 Reference to other sections**

See Sections 8 and 13 for exposure controls and disposal.

**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas. Do not heat Part B at temperatures greater than 100°C.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.

**7.3 Specific end use(s)**

No information provided.

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

**8.1 Control parameters**

**Exposure standards**

Substance	Reference	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Diethylene triamine	SWA (AUS)	1	4.2	--	--

**Biological limits**

No biological limit values have been entered for this product.

**8.2 Exposure controls**

**Engineering Controls**    Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

**PPE**

**Eye/Face**                    Wear splash-proof goggles.

**Hand**                         Wear viton (R) or nitrile gloves.

**Body**                         Wear coveralls.

**Respiratory**                Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. If sanding dry product, wear a Class P1 (Particulate) respirator.

Product name **LOCTITE EA 934NA PART B KNOWN AS HYSOL EA 934 NA PART B**



**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	VISCOUS AMBER COLOURED LIQUID
<b>Odour</b>	AMMONIACAL ODOUR
<b>Odour Threshold</b>	NOT AVAILABLE
<b>Flammability</b>	CLASS C1 COMBUSTIBLE
<b>Flash Point</b>	> 93°C
<b>Boiling Point</b>	> 93°C
<b>Melting Point</b>	NOT AVAILABLE
<b>Evaporation Rate</b>	NOT AVAILABLE
<b>pH</b>	> 7
<b>Specific Gravity</b>	0.96
<b>Solubility (water)</b>	SOLUBLE
<b>Vapour Density</b>	NOT AVAILABLE
<b>Vapour Pressure</b>	< 1 mm Hg @ 20°C
<b>Upper Explosion Limit</b>	NOT RELEVANT
<b>Lower Explosion Limit</b>	NOT RELEVANT
<b>Partition Coefficient</b>	NOT AVAILABLE
<b>Autoignition Temperature</b>	NOT AVAILABLE
<b>Decomposition Temperature</b>	NOT AVAILABLE
<b>Viscosity</b>	NOT AVAILABLE
<b>Explosive Properties</b>	NOT AVAILABLE
<b>Oxidising Properties</b>	NOT AVAILABLE

**9.2 Other information**

No information provided.

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

Carefully review all information in sections 10.2 to 10.6.

**10.2 Chemical stability**

Stable under recommended conditions of storage.

**10.3 Possibility of hazardous reactions**

Hazardous polymerization is not expected to occur.

**10.4 Conditions to avoid**

Avoid heat, sparks, open flames and other ignition sources.

**10.5 Incompatible materials**

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), heat and ignition sources.

**10.6 Hazardous decomposition products**

May evolve toxic gases (carbon/ nitrogen oxides, amines, ammonia, hydrocarbons) when heated to decomposition.

Product name **LOCTITE EA 934NA PART B KNOWN AS HYSOL EA 934 NA PART B**

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

<b>Acute toxicity</b>	Ingestion may result in burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.
<b>Skin</b>	Causes burns. Contact may result in irritation, redness, pain, rash, dermatitis and possible burns.
<b>Eye</b>	Causes burns. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.
<b>Mutagenicity</b>	Not classified as a mutagen.
<b>Carcinogenicity</b>	Not classified as a carcinogen.
<b>Reproductive</b>	Not classified as a reproductive toxin.
<b>STOT - single exposure</b>	Over exposure may result in irritation of the nose and throat, with coughing. High level exposure may result in breathing difficulties, ulceration, pulmonary oedema and unconsciousness.
<b>STOT - repeated exposure</b>	Not classified as causing organ damage from repeated exposure. Adverse effects are generally associated with single exposure.
<b>Aspiration</b>	Not classified as causing aspiration.
<b>Sensitisation</b>	May cause an allergic skin reaction. This product is not classified as a respiratory sensitiser.

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

No information provided.

**12.3 Bioaccumulative potential**

No information provided.

**12.4 Mobility in soil**

No information provided.

**12.5 Results of PBT and vPvB assessment**

No information provided.

**12.6 Other adverse effects**

No information provided.

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

<b>Waste disposal</b>	Mix components together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer/supplier for additional information (if required). Prevent contamination of drains and waterways as environmental damage may result.
<b>Legislation</b>	Dispose of in accordance with relevant local legislation.

**14. TRANSPORT INFORMATION**

**CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**

Product name **LOCTITE EA 934NA PART B KNOWN AS HYSOL EA 934 NA PART B**



	Land Transport (ADG)	Sea Transport (IMDG/IMO)	Air Transport (IATA/ICAO)
<b>14.1 UN number</b>	2735	2735	2735
<b>14.2 UN proper shipping name</b>	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.		
<b>14.3 Transport hazard classes</b>			
<b>DG Class</b>	8	8	8
<b>Subsidiary risk(s)</b>	None Allocated	-	-
<b>14.4 Packing group</b>	II	II	II
<b>14.5 Environmental hazards</b>		None Allocated	
<b>14.6 Special precautions for user</b>			
<b>Hazchem Code</b>	2X		
<b>EMS</b>		F-A, S-B	

**15. REGULATORY INFORMATION**

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

<b>Poison schedule</b>	Classified as a Schedule 5 Poison using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).	
<b>Classifications</b>	C - Corrosive N - Dangerous for the environment Xi - Irritant	
<b>Risk phrases</b>	R34:	Causes burns.
	R41:	Risk of serious damage to eyes.
	R43:	May cause sensitisation by skin contact.
	R51/53:	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
<b>Safety phrases</b>	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, contact a doctor or Poisons Information Centre immediately and show container or label.
	S60:	This material and its container must be disposed of as hazardous waste.
<b>Inventory listing(s)</b>	<b>AUSTRALIA: AICS (Australian Inventory of Chemical Substances)</b> All components are listed on AICS, or are exempt.	

**15.2 Chemical safety assessment**

No information provided.

**16. OTHER INFORMATION**

**Additional information** This product is used in conjunction with LOCTITE EA 934NA PART A KNOWN AS HYSOL EA 934 NA

**Product name**                      **LOCTITE EA 934NA PART B KNOWN AS HYSOL EA 934 NA PART B**

PART A. Please refer to the appropriate SDS before use.

**WELDING - SANDING - CUTTING DRIED OR CURED PRODUCT:** If sanding, cutting or welding dried or cured product, adverse health effects may be avoided by the use of appropriate engineering controls and/or personal protective equipment. If welding, wear a Class P2 (Metal fume) respirator and depending on the nature of the surface being welded, additional protection (e.g. for organic vapours/acid gas) may also be required. A Class P1 (Particulate) respirator is recommended if dust is generated.

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**HEALTH EFFECTS FROM EXPOSURE:**  
It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**  
The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	EC No - European Community Number
EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
GHS	Globally Harmonized System
GTEPG	Group Text Emergency Procedure Guide
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m <sup>3</sup>	Milligrams per Cubic Metre
OEL	Occupational Exposure Limit
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average

**Report Status**

This ChemAlert report has been independently compiled by RMT's scientific department utilising the original Safety Data Sheet ('SDS') for the product provided to RMT by the manufacturer. The information is based on the latest chemical and toxicological research and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. It is an independent collation by RMT of information obtained from the original SDS for this product. Its content has not been authorised or verified by the manufacturer / distributor of the chemical to which it relates.

**Product name**                    **LOCTITE EA 934NA PART B KNOWN AS HYSOL EA 934 NA PART B**

This ChemAlert report does not constitute the manufacturer's original SDS and is not intended to be a replacement for same. It is provided to subscribers of ChemAlert as a reference tool only, is not all-inclusive and does not represent any guarantee as to the properties of the product. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this ChemAlert report, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this ChemAlert report.

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**End of Report**