

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### 1.1 Product identifier

**Product name** HYSOL EA 9359.3 PART B  
**Synonym(s)** NSN: 8040-01-478-8114 • NSN: XXXX-01-446-7381  
9359.3 PART B • EA 9359.3 PART B

### 1.2 Uses and uses advised against

**Use(s)** ADHESIVE • HARDENER FOR EPOXY RESIN SYSTEM • TWO COMPONENT EPOXY SYSTEM

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

**Supplier name** HENKEL AUSTRALIA PTY LTD  
**Address** 135 - 141 Canterbury Road, Kilsyth, Victoria, 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)** Acute Toxicity: Oral: Category 4  
Acute Toxicity: Skin: Category 4  
Skin Corrosion/Irritation: Category 1B  
Skin Sensitization: Category 1  
Serious Eye Damage / Eye Irritation: Category 1  
Acute Toxicity: Inhalation: Category 4

### 2.2 Label elements

**Signal word**

**DANGER**

**Pictograms**



**Hazard statement(s)**

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.

**Prevention statement(s)**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response statement(s)**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

<b>Product name</b>	<b>HYSOL EA 9359.3 PART B</b>
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.
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.
<b>Storage statement(s)</b>	
P405	Store locked up.
<b>Disposal statement(s)</b>	
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
PHENOL	108-95-2	203-632-7	1-5%
SUBSTITUTED PIPERAZINE	Not Available	Not Available	30-60%
BUTADIENE-PROPENENITRILE POLYMER	68683-29-4	614-706-7	10-30%
DIETHYLENE GLYCOL, DI(3-AMINOPROPYL)ETHER	4246-51-9	224-207-2	10-30%
ALCOHOL DERIVATIVE	Not Available	Not Available	5-10%
CYCLOALIPHATIC AMINE(S)	Not Available	Not Available	5-10%
SILICA, AMORPHOUS - FUMED, CRYSTALLINE FREE	112945-52-5	601-216-3	5-10%

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

<b>Eye</b>	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.
<b>Inhalation</b>	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.
<b>Skin</b>	If on skin, remove any contaminated clothing, wash thoroughly with soap and water, then methylated spirit if available. Contact the Poisons Information Centre or a doctor.
<b>Ingestion</b>	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
<b>First aid facilities</b>	Eye wash facilities and safety shower are recommended.

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

No information provided.

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

PHENOLS - CRESYLIC ACID - CHLOROPHENOLS: See First Aid details in the first instance. Establish airways and maintain respiration. Examine and treat for corrosive injury, methaemoglobinemia and liver damage.

**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

**Product name** HYSOL EA 9359.3 PART B

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.

**5.4 Hazchem code**

- 2X
- 2 Water Fog (or fine water spray if fog unavailable)
- X Full protective clothing including Self Contained Breathing apparatus.

## 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 above 100°C.

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

Store tightly sealed in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should be bunded and have appropriate fire protection and ventilation systems. Shelf life: 1 year when stored at 25°C.

**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>
Fumed silica (respirable dust)	SWA (AUS)	--	2	--	--
Phenol	SWA (AUS)	1	4	--	--

**Biological limits**

Ingredient	Reference	Determinant	Sampling time	BEI
PHENOL	ACGIH BEI	Total phenol in urine (with hydrolysis)	End of shift	250 mg/g creatinine

**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**

<b>Product name</b>	<b>HYSOL EA 9359.3 PART B</b>
<b>Eye/Face</b>	Wear splash-proof goggles.
<b>Hand</b>	Wear viton (R) or nitrile gloves.
<b>Body</b>	Wear coveralls. If spraying, with prolonged use, or if in confined areas, wear impervious coveralls.
<b>Respiratory</b>	Wear a Type A (Organic vapour) respirator. If sanding dry product, wear a Class P1 (Particulate) respirator. If spraying, with prolonged use, or if in confined areas, wear an Air-line respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	VISCOUS BLUE PASTE
<b>Odour</b>	SLIGHT ODOUR
<b>Odour Threshold</b>	NOT AVAILABLE
<b>pH</b>	NOT AVAILABLE
<b>Melting Point</b>	NOT AVAILABLE
<b>Boiling Point</b>	NOT AVAILABLE
<b>Flash Point</b>	NOT AVAILABLE
<b>Evaporation Rate</b>	NOT AVAILABLE
<b>Flammability</b>	COMBUSTIBLE
<b>Upper Explosion Limit</b>	NOT AVAILABLE
<b>Lower Explosion Limit</b>	NOT AVAILABLE
<b>Vapour Pressure</b>	NOT AVAILABLE
<b>Vapour Density</b>	NOT AVAILABLE
<b>Solubility (water)</b>	INSOLUBLE
<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
<b>Specific Gravity</b>	1.02

### 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

Do not heat Part B at temperatures greater than 100°C. This product may self-react at higher temperatures, possibly releasing toxic gases. Exothermic polymerisation will occur with epoxy resin.

### 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**                    **HYSOL EA 9359.3 PART B**

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

<b>Health hazard summary</b>	Corrosive - toxic. This product has the potential to cause adverse health effects. Use safe work practices to avoid eye or skin contact and inhalation. This product contains phenol which is strongly irritating and corrosive. Over exposure may result in spleen, pancreas, liver, kidney and lung damage. Potential sensitising agent. Individuals with pre-existing respiratory impairment (eg asthmatics) or skin sensitivities may be more susceptible to adverse health effects.
<b>Eye</b>	Corrosive. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.
<b>Inhalation</b>	Slightly corrosive - irritant. Over exposure may result in irritation of the nose and throat, with coughing. May cause sensitisation by inhalation. High level exposure may result in breathing difficulties, ulceration, pulmonary oedema and unconsciousness.
<b>Skin</b>	Corrosive - toxic. Contact may result in irritation, redness, pain, rash, dermatitis and possible burns. May cause discolouration of the skin. May be absorbed through skin with harmful effects. May cause sensitisation by skin contact.
<b>Ingestion</b>	Toxic - corrosive. Ingestion may result in extensive burns to the mouth and throat, liver and kidney damage, dark urine, bloody diarrhoea, convulsions and unconsciousness.
<b>Toxicity data</b>	<p>PHENOL (108-95-2)</p> <p>LC50 (Inhalation): 177 mg/m<sup>3</sup> (mouse)</p> <p>LD50 (Ingestion): 270 mg/kg (mouse)</p> <p>LD50 (Intraperitoneal): 127 mg/kg (rat)</p> <p>LD50 (Intravenous): 112 mg/kg (mouse)</p> <p>LD50 (Skin): 630 mg/kg (rabbit)</p> <p>LD50 (Subcutaneous): 344 mg/kg (mouse)</p> <p>LDLo (Ingestion): 10 mg/kg (infant)</p> <p>LDLo (Intraperitoneal): 300 mg/kg (guinea pig)</p> <p>LDLo (Intravenous): 180 mg/kg (rabbit)</p> <p>LDLo (Subcutaneous): 75 mg/kg (frog)</p> <p>TDLo (Skin): 16 g/kg (mouse)</p> <p>DIETHYLENE GLYCOL, DI(3-AMINOPROPYL)ETHER (4246-51-9)</p> <p>LD50 (Ingestion): 4290 mg/kg (rat)</p> <p>LD50 (Skin): 2500 uL/kg (rabbit)</p> <p>SILICA, AMORPHOUS - FUMED, CRYSTALLINE FREE (112945-52-5)</p> <p>LCLo (Inhalation): 10 mg/kg intratracheal, rat</p> <p>LD50 (Ingestion): 3160 mg/kg (rat)</p> <p>LD50 (Intravenous): 15 mg/kg (rat)</p> <p>LDLo (Ingestion): 50 mg/kg intraperitoneal, rat</p>

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

This material may cause harmful effects to aquatic organisms.

**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**

Avoid contaminating waterways and soil.

Product name HYSOL EA 9359.3 PART B

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Waste disposal** 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.

**Legislation** Dispose of in accordance with relevant local legislation.

**14. TRANSPORT INFORMATION**

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



	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**

**Poison schedule** Classified as a Schedule 6 Poison using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classifications** C - Corrosive  
Xi - Irritant  
Xn - Harmful

**Risk phrases** R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.  
R34: Causes burns.  
R41: Risk of serious damage to eyes.  
R43: May cause sensitisation by skin contact.

**Safety phrases** S23: Do not breathe gas/fumes/vapour/spray (where applicable).  
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).

**Inventory listing(s)** **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)**  
All components are listed on AICS, or are exempt.

**Product name**            **HYSOL EA 9359.3 PART B**

**15.2 Chemical safety assessment**

No information provided.

**16. OTHER INFORMATION**

**Additional information**    This product is used in conjunction with EA 9359.3 Part A. Please consult the appropriate ChemAlert report prior to use.

**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.

**AMINE: CAUTION: THIS PRODUCT CONTAINS AN AMINE. DO NOT ADD NITRITES** or other NITROSATING AGENTS to this product due to the potential for NITROSAMINE formation. Nitrosamines are potent carcinogens and some have been shown to cause severe acute (heart, brain, blood, liver - kidney) damage as well as chronic effects (reproductive effects, liver - lung and kidney tumours).

**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.

**COLOUR RATING SYSTEM:** RMT has assigned all ChemAlert reports a colour rating of Green, Amber or Red for the sole purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all ChemAlert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline, a Green colour rating indicates a low hazard, an Amber colour rating indicates a moderate hazard and a Red colour rating indicates a high hazard.

While all due care has been taken by RMT in the preparation of the Colour Rating System, it is intended as a guide only and RMT does not provide any warranty in relation to the accuracy of the Colour Rating System. As far as is lawfully possible, RMT accepts no liability or responsibility whatsoever for the actions or omissions of any person in reliance on the Colour Rating System.

<b>Abbreviations</b>	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
	PEL	Permissible Exposure Limit
	pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
	ppm	Parts Per Million
	REACH	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
	STEL	Short-Term Exposure Limit
	STOT-RE	Specific target organ toxicity (repeated exposure)

**Product name**                    **HYSOL EA 9359.3 PART B**

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.

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.

**Prepared By**                    Risk Management Technologies  
 5 Ventnor Ave, West Perth  
 Western Australia 6005  
 Phone: +61 8 9322 1711  
 Fax: +61 8 9322 1794  
 Email: info@rmt.com.au  
 Web: www.rmt.com.au

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**End of Report**