

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name EPIMAX TECHNOLOGIES PTY LTD

Address 4/3 Moorebank Avenue, Moorebank, NSW, AUSTRALIA, 2170

 Telephone
 1300 721 522

 Fax
 (02) 9904 3207

 Emergency
 1300 721 522

Synonym(s) 421HAR COMPOUND • 4042120 - PRODUCT CODE • EPOXIDE RESIN AND XYLENE

Use(s) TWO PART EPOXY RESIN COMPOSITION. USE WITH EPIMAX 421HAR HARDENER.

SDS Date 08/01/16

2. HAZARDS IDENTIFICATION

RISK PHRASES

R10 Flammable

R20/21 Harmful by inhalation and in skin contact
R36/37/38 Irritating to eyes, respiratory system and skin
R43 May cause sensitisation by skin contact

R48/20 Danger of serious damage to health through prolonged inhalation of sanding dust.

SAFETY PHRASES

Keep away from sources of ignition- No smokingDo not breathe vapour dust when sanding

S24/25 Avoid contact with skin and eyes S29 Do not empty into drains

S36/37/39 Wear suitable protective clothing, gloves and eye face protection

S38 If insufficient ventilation, use respiratory equipment

UN No.	1263	DG CLASS	3	Subsidiary Risk(s)	None Allocated
Packing Group	III	Hazchem Code	3[Y]		

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS NO.	Content
EXPOXY NOVOLAC RESIN	NOT AVAILABLE	028064-14-4	30% - 60%
INERT FILLER	NOT AVAILABLE	014808-60-7	30% - 60%
XYLENE	C6H4C2H6	001330-20-7	< 10%
NON HAZARDOUS INGREDIEN	TO 100%		

4. 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 Airline 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.

Special Treatment Treat symptomatically.

5. FIRE FIGHTING MEASURES

Special Hazards Flammable. May evolve toxic gases (carbon oxides, phenols, hydrocarbons) when heated to

decomposition. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile phones etc. when handling. Earth

containers when dispensing fluids.

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.

Extinguishing Media Dry agent, carbon dioxide or water fog. Prevent contamination of drains or waterways

Hazchem Code 3[Y]

6. ACCIDENTAL RELEASE MEASURES

Spillage Contact emergency services where appropriate. Use personal protective equipment. Clear area

of all unprotected personnel. Ventilate area where possible. 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 ignition sources.

7. STORAGE AND HANDLING

Storage Store tightly sealed in a cool, dry, well ventilated area, removed from oxidising agents, acids,

alkalis, 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.

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Exposure Stds

Ingredient	Reference	TWA		STEL	
XYLENE	SWA (AUS)	80ppm	350mg/m ³	150ppm	655mg/m ³

Biological Limits No biological limit allocated.

Engineering Controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical

> explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended

exposure standard.

PPE Wear splash-proof goggles, nitrile or viton (R) gloves, coveralls and 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: impervious coveralls and an Air-line respirator.









9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	VARIOUS COLOURED LIQUID	Solubility (water)	INSOLUBLE
Odour	NOT AVAILABLE	Specific Gravity	1.70
рН	NOT AVAILABLE	% Volatiles	10%
Vapour Pressure	NOT AVAILABLE	Flammability	FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	52°C
Boiling Point	NOT DETERMINED	Upper Explosion Limit	NOT AVAILABLE
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT AVAILABLE
Evaporation Rate	NOT AVAILABLE		
Autoignition Rate	NOT AVAILABLE	Decomposition Temperature	NOT AVAILABLE
Partition Coefficient	NOT AVAILABLE	Viscosity	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended conditions of storage.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources.

Material to avoid Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid), alkalis (eg.

hydroxides), heat and ignition sources.

Hazardous May evolve toxic gases (carbon oxides, phenols, hydrocarbons) when heated to

Decomposition decomposition.

Products

Hazardous Reactions Hazardous polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Health hazard summary Irritant - low to moderate toxicity. This product has the potential to cause adverse health effects

with over exposure. Use safe work practices to avoid eye or skin contact and inhalation. May

cause sensitisation by skin contact. The cured product is considered non toxic.

Eye Irritant. Contact may result in irritation, lacrimation, pain, redness and conjunctivitis. May result

in burns with prolonged contact.

Inhalation Over exposure may result in irritation of the nose and throat, with coughing. High level

exposure may result in dizziness, drowsiness, breathing difficulties, pulmonary oedema and

unconsciousness. May cause sensitisation by inhalation.

Skin Irritant. Contact may result in irritation, redness, rash and dermatitis. May cause sensitisation by

skin contact.

Ingestion Moderate toxicity. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, fatigue,

dizziness and unconsciousness.

Toxicity Data There is no toxicological information available for this product.

12. ECOLOGICAL INFORMATION

Other adverse effects Limited ecotoxicity data was available for this product at the time this report was prepared.

Ensure appropriate measures are taken to prevent this product from entering the environment.

13. DISPOSAL CONSIDERATIONS

Waste disposal Mix parts A + B 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 for additional information.

Prevent contamination of drains or waterways as environmental damage may result.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION



CLASSIFIED AS A DANGEROUS GOOD THE CRITERIA OF THE ADG CODE

Shipping Name	FLAMMABLE LIQUID N.O.S					
UN No.	1263	DG CLASS	3	Subsidiary Risk(s)	NONE ALLOCATED	
Packing Group	III	Hazchem Code	3[Y]			

IATA

Shipping Name	FLAMMABLE LIQUID N.O.S				
UN No.	1263	DG CLASS	3	Subsidiary Risk(s)	NONE ALLOCATED
Packing Group	III	Hazchem Code	3[Y]		

IMDG

Shipping Name	FLAMMABLE LIQUID N.O.S				
UN No.	1263	DG CLASS	3	Subsidiary Risk(s)	NONE ALLOCATED
Packing Group	III	Hazchem Code	3[Y]		

15. REGULATORY INFORMATION

Poison Schedule Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform

Scheduling of Drugs and Poisons (SUSDP).

All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Additional information This product is used in conjunction with EpiMax 421HAR Hardener.

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 (eg. for organic vapours/acid gas) may also be required. A Class P1(Particulate) respirator is recommended if dust is generated.

EPOXY - PHENOXY RESINS AND POLYURETHANES: Where spray painting with two or more component epoxy resins or polyurethane paints is undertaken, an employee shall wear a airline respirator, full length chemically resistant coveralls and gloves. Further, if an individual is to enter an enclosed booth where a vapour or gas curing process is occurring, an air-line respirator is required. Once cured, these resins are considered non toxic.

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.

ABBREVIATIONS:

ACGIH - American Conference of Industrial Hygienists.

ADG - Australian Dangerous Goods.

BEI - Biological Exposure Indice(s).

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EC No - European Community Number.

HSNO - Hazardous Substances and New Organisms.

IARC - International Agency for Research on Cancer.

mg/m³ - Milligrams per Cubic Metre.

NOS - Not Otherwise Specified.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

PPM - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

STEL - Short Term Exposure Limit.

SWA - Safe Work Australia.

TWA - Time Weighted Average.



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 (02) 9904 3207

 Emergency
 1300 721 522

Synonym(s) 421HAR HARDENER • 5042120 - PRODUCT CODE • FORMULATED POLYAMINE ADDUCT

Use(s) TWO PART EPOXY RESIN COMPOSITION. USE WITH EPIMAX 421HAR COMPOUND

SDS Date 24/02/12

2. HAZARDS IDENTIFICATION

RISK PHRASES

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R34 Causes burns

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

S36/37/39 Wear suitable protective clothing, gloves and eye face protection
S38 In case of insufficient ventilation, wear suitable respiratory equipment.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible)

UN No.	2735	DG CLASS	8	Subsidiary Risk(s)	None Allocated
Packing Group	III	Hazchem Code	2X		

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS NO.	Content	
ISOPHORONE DIAMINE	NOT AVAILABLE	002855-13-2	30% - 60%	
M-XYLENE DIAMINE	NOT AVAILABLE	004177-55-0	10% - <30%	
BENZYL ALCOHOL	C6H5CH2OH	000100-51-6	30% - 60%	
NON-HAZARDOUS INGREDI	TO 100%			

4. 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 Airline 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.

Special Treatment Treat symptomatically.

5. FIRE FIGHTING MEASURES

Special Hazards Combustible. May evolve toxic gases (carbon oxides, phenols, hydrocarbons) when heated to

decomposition. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile phones etc. when handling. Earth

containers when dispensing fluids.

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.

Extinguishing Media Dry agent, carbon dioxide or water fog. Prevent contamination of drains or waterways

Hazchem Code 2X

6. ACCIDENTAL RELEASE MEASURES

Spillage Contact emergency services where appropriate. Use personal protective equipment. Clear

area of all unprotected personnel. Ventilate area where possible. 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 ignition sources.

7. STORAGE AND HANDLING

Storage Store tightly sealed in a cool, dry, well ventilated area, removed from oxidising agents, acids, alkalis,

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.

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Exposure Stds None allocated

Biological Limits No biological limit allocated.

Engineering Controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical

explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended

exposure standard.

PPE Wear splash-proof goggles, nitrile or viton (R) gloves, coveralls and 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: impervious coveralls and an Air-line respirator.









9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceCLEAR LIQUIDSolubility (water)INSOLUBLEOdourSLIGHTLY AMMONIACALSpecific Gravity1.03.107pHNOT AVAILABLE% Volatiles<1%</th>

Vapour PressureNOT AVAILABLEFlammabilityNOT AVAILABLE

Vapour Density NOT AVAILABLE Flash Point 100°C

Boiling PointNOT AVAILABLEUpper Explosion LimitNOT AVAILABLEMelting PointNOT AVAILABLELower Explosion LimitNOT AVAILABLE

Evaporation Rate NOT AVAILABLE

Autoignition RateNOT AVAILABLEDecomposition TemperatureNOT AVAILABLEPartition CoefficientNOT AVAILABLEViscosityNOT AVAILABLE

10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended conditions of storage.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources.

Material to avoid Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid), alkalis (eg.

hydroxides), heat and ignition sources.

Hazardous May evolve toxic gases (carbon oxides, phenols, hydrocarbons) when heated to

Decomposition

Products

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decomposition.

Hazardous Reactions Hazardous polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Health hazard summary Corrosive. This product has the potential to cause adverse health effects. Use safe work

practices to avoid eye or skin contact and inhalation. Potential sensitising agent. Individuals with pre-existing respiratory impairment (eg asthmatics) or skin sensitivities may be more

susceptible to adverse health effects.

Eye Corrosive - irritant. Contact may result in irritation, lacrimation, pain, redness, corneal burns

and possible permanent damage.

Inhalation Corrosive. Over exposure may result in irritation of the nose and throat, coughing, burning

sensation, nausea and dizziness. May cause sensitisation by inhalation. High level exposure may result in breathing difficulties, ulceration, pulmonary oedema and unconsciousness.

Skin Corrosive. Will cause severe irritation and burns. Contact may result in irritation, redness,

pain, rash, dermatitis and possible burns. May cause sensitisation by skin contact.

Ingestion Corrosive. Ingestion may result in burns to the mouth and throat, nausea, vomiting, ulceration

of the gastrointestinal tract, breathing difficulties, circulatory collapse and coma.

Toxicity Data There is no toxicological information available for this product.

12. ECOLOGICAL INFORMATION

Other adverse effects Limited ecotoxicity data was available for this product at the time this report was prepared.

Ensure appropriate measures are taken to prevent this product from entering the environment.

13. DISPOSAL CONSIDERATIONS

Waste disposal Mix parts A + B 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 for additional information.

Prevent contamination of drains or waterways as environmental damage may result.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION



CLASSIFIED AS A DANGEROUS GOOD THE CRITERIA OF THE ADG CODE

Shipping Name	CORROSIVE LIQUID N.O.S				
UN No.	2735	DG CLASS	8	Subsidiary Risk(s)	NONE ALLOCATED
Packing Group	III	Hazchem Code	2X	GTEPG	NONE ALLOCATED

IATA

Shipping Name	CORROSIVE LIQUID N.O.S				
UN No.	2735	DG CLASS	8	Subsidiary Risk(s)	NONE ALLOCATED
Packing Group	III	Hazchem Code	2X		

IMDG

Shipping Name	CORROSIVE LIQUID N.O.S				
UN No.	2735	DG CLASS	8	Subsidiary Risk(s)	NONE ALLOCATED
Packing Group	III	Hazchem Code	2X		

15. REGULATORY INFORMATION

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16. OTHER INFORMATION

Additional information This product is used in conjunction with EpiMax 421HAR Compound.

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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.

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