## GENERAL PURPOSE EPOXY HARDENER

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## Section 1: Identification of the substance/mixture and of the company/undertaking

# 1.1. Product identifier

# Product name: GENERAL PURPOSE EPOXY HARDENER

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

# Use of substance / mixture: CURING AGENT

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

Company name: Automotive Bodyfillers Ltd

Unit 4, Millbuck Way

Springvale Industrial Estate

Sandbach

Cheshire

CW11 3HT

- Tel: 01270 766685
- Fax: 01270 766685
- Email: enquiries@resin-supplies.co.uk

# 1.4. Emergency telephone number 01270 766685 Mon-Fri 9am-5pm only

# Section 2: Hazards identification

2.1. Classification of the subst	tance or mixture
Classification under CLP:	Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1A: H317; Repr. 2: H361fd; Aquatic
	Chronic 1: H410; -: EUH071
Most important adverse effects:	Harmful if swallowed. Causes severe skin burns and eye damage. May cause an
	allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the
	unborn child. Very toxic to aquatic life with long lasting effects. Corrosive to the
	respiratory tract.

## 2.2. Label elements

Label elements:	
Hazard statements:	H302: Harmful if swallowed.
	H314: Causes severe skin burns and eye damage.
	H317: May cause an allergic skin reaction.
	H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
	H410: Very toxic to aquatic life with long lasting effects.
	EUH071: Corrosive to the respiratory tract.
Signal words:	Danger
Hazard pictograms:	GHS05: Corrosion

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 GHS09: Environmental

 GHS08: Health hazard

 GHS07: Exclamation mark

 Image: Precautionary statements:

 P201: Obtain special instructions before use.

 P280: Wear protective gloves/protective clothing/eye protection/face protection.

 P281: Use personal protective equipment as required.

 P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

 Rinse skin with water/shower.

 P305+351+338: 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/doctor/.

Other hazards: Components of the product may affect the nervous system. May cause sensitisation by

skin contact. Severe respiratory irritant. Severe skin irritant.

**PBT:** This product is not identified as a PBT/vPvB substance.

# Section 3: Composition/information on ingredients

# 3.2. Mixtures

#### Hazardous ingredients:

# BENZYL ALCOHOL

202-859-9         100-51-6         -         Acute Tox. 4: H332; Acute Tox. 4: H302	10-30%

4-TERT-BUTYLPHENOL

202-679-0	98-54-4	-	Repr. 2: H361f; Skin Irrit. 2: H315; Eye	10-30%
			Dam. 1: H318	

#### M-PHENYLENEBIS(METHYLAMINE)

216-032-5 1477-55-0	10-30%
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## TRIMETHYLHEXANE-1,6-DIAMINE

247-134-8 25620-58-0 1-109
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# NONYLPHENOL

246-672-0	25154-52-3	-	Repr. 2: H361fd; Acute Tox. 4: H302;	10-30%
			Skin Corr. 1B: H314; Aquatic Acute 1:	
			H400; Aquatic Chronic 1: H410	

# Contains: POLYAMINE ADDUCT

# Section 4: First aid measures

4.1. Description of first aid me	asures
· · · · ·	
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin.
	Drench the affected skin with running water for 10 minutes or longer if substance is still
	on skin. Transfer to hospital if there are burns or symptoms of poisoning. NOTE TO
	PHYSICIANS: Application of corticosteroid cream has been effective in treating skin
	irritation.
Eye contact:	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist
	examination.
Ingestion:	If conscious, give half a litre of water to drink immediately. If unconscious, check for
	breathing and apply artificial respiration if necessary. If unconscious and breathing is
	OK, place in the recovery position. Do not induce vomiting. Give 1 cup of water to drink
	every 10 minutes. Transfer to hospital as soon as possible.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If
	conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the
	casualty sit and provide oxygen if available. If unconscious, check for breathing and
	apply artificial respiration if necessary. If unconscious and breathing is OK, place in the
	recovery position. Transfer to hospital as soon as possible.
4.2. Most important symptoms	s and effects, both acute and delayed
Skin contact:	If absorbed through the skin, may cause central nervous system effects, such as
	headache, nausea, dizziness, confusion, breathing difficulties.
Eye contact:	Corneal edema can cause the perception of "blue haze" or "fog" around lights, although
	this is a temporary effect and has no known residual effect. Product vapor can cause
	glaucopsia (corneal edema) when absorbed into the tissue of the eye from the
	atmosphere.
Ingestion:	May cause central nervous system effects, such as headache, nausea, vomiting,
	abdominal pain, dizziness, confusion, breathing difficulties. Severe cases of
	overexposure can result in respiratory failure.
Inhalation:	Harmful if inhaled and may cause delayed lung injury. May cause central nervous
	system effects, such as headache, nausea, dizziness, confusion or breathing difficulties.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

### Section 5: Fire-fighting measures

## 5.1. Extinguishing media

Extinguishing media: Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Dry sand or limestone.

#### 5.2. Special hazards arising from the substance or mixture

Exposure hazards:	May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may
	result in the formation of very toxic aqueous solutions. Do not allow run-off from fire
	fighting to enter drains or water courses. May generate toxic, irritating or flammable
	combustion products. Incomplete combustion may form carbon monoxide. Ammonia
	gas may be liberated at high temperatures. In case of incomplete combustion an
	increased formation of oxides of nitrogen (NOx) is to be expected. May generate carbon
	monoxide and ammonia gas. A sudden reaction and fire may result if product is mixed
	with an oxidizing agent. Personnel in vicinity and downwind should be evacuated.

#### 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus. A face shield should be worn. Retain expended liquids from fire fighting for later disposal.

# Section 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate the area immediately. Open enclosed spaces to outside atmosphere.

#### 6.2. Environmental precautions

Environmental precautions: Contain the spillage using bunding. Do not discharge into drains or rivers.

## 6.3. Methods and material for containment and cleaning up

Clean-up procedures: Approach suspected leak areas with caution. Place in appropriate chemical waste container. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Clean up personnel must be equipped with self contained breathing apparatus and butyl rubber protective clothing. Refer to section 13 of SDS for suitable method of disposal.

## 6.4. Reference to other sections

#### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Handling requirements: Do not use sodium nitrite or other nitrosating agents in formulations containing this

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product. Suspected cancer causing nitrosamines could be formed. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid breathing vapors and/or aerosols. Avoid contact with eyes. Ensure there is sufficient ventilation of the area. Avoid contact with eyes or skin. Use only in well-ventilated areas. Use personal protective equipment. Do not eat.drink or smoke.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Do not store near acids. Keep container tightly closed. Store in a cool, well ventilated area. Do not store in reactive metal containers. Keep from freezing.
 Suitable packaging: Do not store in reactive metal containers.

7.3. Specific end use(s)

# Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

#### **DNEL/PNEC** Values

DNEL / PNEC No data available.

#### 8.2. Exposure controls

Engineering measures:	Provide readily accessible eye wash stations and safety showers. Provide natural or
	explosive-proof ventilation adequate to ensure concentrations are kept below exposure
	limits.
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency.
Hand protection:	Neoprene gloves. PVC gloves. Butyl gloves. Nitrile gloves. Impermeable gloves. The
	breakthrough time of the selected gloves(s) must be greater than the intended use
	period.
Skin protection:	Protective clothing with elasticated cuffs and closed neck. Discard contaminated leather
	articles. Provide readlily accessible eye wash stations and safety showers. Wash at the
	end of each workshift and before eating, smoking or using the toilet.

#### Section 9: Physical and chemical properties

9.1. Information on basic phys	ical and chemical properties		
State:	Liquid		
Colour:	Pale yellow		
Odour:	Ammoniacal		
Oxidising:	Non-oxidising (by EC criteria)		
Solubility in water:	<0.1 g/l		
Boiling point/range°C:	>200.00	Melting point/range°C:	No data
Flash point°C:	>100	Part.coeff. n-octanol/water:	No data
Autoflammability°C:	No data		

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		Vapour pressure:	10.34mmHg	
Relative density:	0.99	pH:	Alkaline	
9.2. Other information				
Other information:	No data available.			
Section 10: Stability and react	ivity			
10.1. Reactivity				
10.2. Chemical stability				
Chemical stability:	Stable under normal conditions.			
10.3. Possibility of hazardous	eactions			
10.4. Conditions to avoid				
10.5. Incompatible materials				
Materials to avoid:	Reactive metals (e.g. sodium, calcium, zinc etc	b) Materials reactive with h	nvdroxvl	
	compounds. CAUTION ! N-Nitrosamines, many	-		
	carcinogens, may be formed when the product		•	
	nitrites or atmospheres with high nitrous oxide of			
	Acids (i.e. acetic acid, citric acid etc) Sodium Hypochlorite. Product slowly corrodes			
	copper, aluminium, zinc and galvanized surface	es. Reaction with peroxide	es may result in	
	violent decomposition of peroxide possibly crea	ating an explosion. Oxidiz	ing agents.	
10.6. Hazardous decompositio	n products			
Haz. decomp. products:	In case of fire hazardous decomposition produc	cts may be produced suc	h as: Carbon	
i i and and south the same	Monoxide - Carbon Dioxide(CO <sup>2</sup> )-Nitric Acid - A			
	Oxide can react with water vapors to form corro	-		
	Flammable hydrocarbon fragmants (e.g. acetyle	-		
Section 11: Toxicological info				

# Section 11: Toxicological information

# 11.1. Information on toxicological effects

# Toxicity values:

Route	Species	Test	Value	Units
ORL	RAT	LD50	2,951	mg/kg

# Hazardous ingredients:

# BENZYL ALCOHOL

IVN	RAT	LD50	53	mg/kg
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ORL	MUS	LD50	1360	mg/kg
ORL	RAT	LD50	1230	mg/kg

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ORL	MUS	LD50	1231	mg/kg
ORL	RAT	LD50	580	mg/kg

#### Symptoms / routes of exposure

**Skin contact:** If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties.

**Eye contact:** Corneal edema can cause the perception of "blue haze" or "fog" around lights, although this is a temporary effect and has no known residual effect. Product vapor can cause glaucopsia (corneal edema) when absorbed into the tissue of the eye from the atmosphere.

- Ingestion: May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure.
- Inhalation: Harmful if inhaled and may cause delayed lung injury. May cause central nervous system effects, such as headache,nausea,dizziness,confusion or breathing difficulties. Severe cases of overexposure can result in respiratory failure. May cause nose,thorat and lung irration. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

#### Section 12: Ecological information

#### 12.1. Toxicity

Ecotoxicity values: No data available.

# 12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data is available on the product itself. Bioaccumulation - components:- Benzyl

alcohol - Low bioaccumluation potential. Nonylphenol - Moderate bioaccumulation

potential.

12.4. Mobility in soil

Mobility: No data available.

# 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

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#### 12.6. Other adverse effects

Other adverse effects: Aquatic toxicity: No data is available on the product itself.

### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

**Recovery operations:** Waste from residues/unused : Contact supplier if guidance is required.

**Disposal of packaging:** Dispose of container and unused contents in accordance with federal,state and local requirements

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

14.1. UN number

UN number: UN2735

### 14.2. UN proper shipping name

Shipping name: AMINES,LIQUID,CORROSIVE, N.O.S.,(BENZENE-1,3-DIMETHANEAMINE

(MXDA), TRIMETHYLHEXANE-1, 5-DIAMINE)

#### 14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: ||

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6. Special precautions for user

Tunnel code: (E)

#### Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

## Section 16: Other information

## Other information

Other information: USA - TSCA : Included on Inventory

EU - EINECS : Included on EINECS inventory or polymer substance, monomers

included on EINECS inventory or no longer polymer.

Canada - DSL : Included on Inventory

Australia - AICS : Included on Inventory.

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Japan - ENCS : Included on Inventory. South Korea - ECL : Included on Inventory. China - SEPA : Included on Inventory. Philippines - PICCS : Included on Inventory. Phrases used in s.2 and s.3: EUH071: Corrosive to the respiratory tract. H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H332: Harmful if inhaled. H361f: Suspected of damaging fertility. H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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