

# EP90

# Universal Epoxy Primer, Part A

Prepared in accordance with European Regulation 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Trade name: EP90 Universal Epoxy Primer

Product No: 10

Version: 2.0/EN

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Print date: 25.02.2020

Revision date: 25.02.2020

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Trade name: EP90 Universal Epoxy Primer, Part A

Other means of identification: product code e.g.: FP-40X82S-005 depending on pack size.

Hazard components for labelling: epoxy resin, xylene.

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

Application of the substance: Epoxy Primer Coating

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

Manufacturer/Supplier: Zest Polyurethanes

Alternator Avenue, Montague Gardens, Cape Town, South Africa, 7441, Tel: +27 (021) 555-3090

Further information obtainable from: The Technical Manager, Zest Polyurethanes. Email: [zest@duram.co.za](mailto:zest@duram.co.za)

### 1.3 Emergency telephone number: The Technical Manager, Zest Polyurethanes, Tel: +27 (021) 555-3090 (GMT 10:00-18:00)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture – according to Regulation (EC) No 1272/2008 [CLP]

Flammable Liquids – Category 3

Skin Irritant - Category 2

Eye Irritant – Category 2

Skin Sensitivity – Category 1

Acute inhalation toxicity – Category 4

Aquatic Chronic 2

### 2.2 GHS Label elements

#### Hazard Pictograms



Signal Word: Warning

Hazard Statements:

H226 Flammable liquid and vapour  
 H315 Causes skin irritation  
 H302 Harmful if swallowed

Precautionary Statements: (Prevention):

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection  
 P284 In case of inadequate ventilation wear respiratory protection

Precautionary Statements: (Response):

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do - continue rinsing.

Precautionary Statements: (Storage):

P403 + P233 Store in a well ventilated place. Keep container tightly closed.

Precautionary Statements: (Disposal):

P501 Dispose of contents/container to landfill site after solidification.

Labelling of special preparations: (GHS):

Contains epoxies. May produce an allergic reaction.

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: Xylene mixed isomers

**2.3 Other hazards**

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1 Chemical characterisation: Mixtures**

Description: Mixture of substances listed below with non-hazardous additions

Hazardous ingredients (GHS) according to Regulation (EC) No 1272/2008 [CLP]			
CAS: 64742-95-6	Light Aromatic Petroleum Solvent,		8 – 15% by mass
CAS: 64742-88-7	Medium Aliphatic Petroleum Solvent,	H226, H315	
CAS: 71-43-2	Benzene		
CAS: 25068-38-6 EINECS: 500-033-5	Reaction product: :bisphenol-A- ( epichlorhydrin): epoxy resin MW <sub>≤</sub> 700		25 - 35% by mass
		Xi R36/238, R43 N 51/53	
CAS: 9003-36-5 EINECS: 500-006-8	Formaldehyde, (polymer with choromethyl) oxirane and phenol, MW <sub>≤</sub> 700		12 - 20% by mass
		R43, N; R51/53 X; R38	

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures**

After skin contact: Use hand cleaner/soap and water. Remove contaminated clothing. If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After

inhalation: Move to fresh air. In case of any discomfort, seek medical attention immediately.

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

Risk of dermatitis.

#### 4.3 Indication of any immediate medical attention and special treatment needed

If ingested, do not induce vomiting. Seek immediate medical attention.

### SECTION 5: FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing agents: Foam. Carbon dioxide. Dry powder. Fog to cool and control.

Unsuitable extinguishing agents, for safety reasons: Do NOT use water jets. Containers can become pressurised if contents are contaminated with water.

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

Flammable with toxic fumes.

#### 5.3 Advice for firefighters

Wear protective equipment and respirators. Blown or distorted containers should be handled with extreme caution.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Wear protective equipment. Keep unprotected persons away.

#### 6.2 Environmental precautions

Do not allow to enter drains or sewers / surface or ground water.

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

Ensure adequate ventilation. Hazardous in liquid state. Solidify if possible before disposal.

#### 6.4 Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Information about protection against fire and explosion: Flammable. No open flames. No smoking.

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

Requirements to be met by storerooms and receptacles: Store separately from any reactive substances, especially oxidisers.

Information about storage in one common facility: As above.

Further information about storage conditions: Keep containers tightly sealed.

#### 7.3 Specific end use(s)

Open with care. Cover lid / bung with a cloth while releasing pressure.

Generates carbon dioxide gas from reaction with water. Do not seal if contaminated with water due to danger of bursting.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: Adequate ventilation. See items 7.1 and 7.2.

#### 8.1 Control parameters

Ingredients with limit values that require monitoring in the workplace: Monitoring is not required. The product has no quantities of materials with critical values.

Additional information:

Component:	IOELV TWA (8 hours):		IOELV STEL (15 minutes):	
XYLENE (1330-20-7)	50 ppm	221 mg/m <sup>3</sup>	100 ppm	442 mg/m <sup>3</sup>

#### 8.2 Exposure controls

General protective and hygiene measures: Wash hands before breaks and at the end of work. Do not inhale gases/fumes.

Personal protective equipment:



Respiratory protection:  
A cartridge-type respirator with cartridge for organic fumes is essential for spraying operations.



Eye protection:  
Wear tightly sealed goggles or face shield.



Hand protection:  
Wear nitrile rubber gloves.

Material of gloves: The selection of suitable gloves also depends on marks of quality, which vary from manufacturer to manufacturer. The resistance of the glove material cannot be calculated in advance and therefore has to be checked prior to the time of application.

Penetration of glove material: Observe the exact breakthrough time supplied by the manufacturer.

Skin protection: Wear overalls and safety boots.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 General information

#### Appearance:

Physical state	Liquid
Colour	Grey
Odour	Solvent
Odour threshold	Not determined
pH value:	8.0

#### Change in condition:

Melting point/Melting range	< -46 °C
Boiling point/Boiling range	140 °C
Flash point	27 °C (ASTM D56)
Flammability (solid, gaseous)	Flammable
Ignition temperature	> 200 °C
Decomposition temperature	200 °C
Self-igniting	Product is not self-igniting.
Danger of explosion	Explosion of mixtures with oxygen possible. Produces carbon dioxide gas when mixed with water. Subsequent sealing of drums can lead to pressure burst.

#### Explosion limits:

Upper	2.1 % by volume
Lower	11.5 % by volume
Vapour pressure at 20 °C	14.2 hPa
Density at 20 °C	1.00 g/cm <sup>3</sup>
Relative density	1.0 (water = 1.00)
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with water	Not miscible, reacts with water
Segregation coefficient (n-octanol/water)	Not determined

#### Viscosity:

Dynamic at 20 °C	1400 – 1600 cP at 23°C
Kinematic	Not determined

#### Solvent content:

Organic solvents	< 8.8 % by mass
Water	< 0.1 % by mass
Solids content	> 90 % by volume

**9.2 Other information**

No further relevant information available.

VOC (EU)	≤ 88.5g/L
VOCV	≤ 10% by volume

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

Slowly solidifies.

**10.2 Chemical stability**

Thermal decomposition / conditions to be avoided: Could produce static discharge – use earthing.

**10.3 Possibility of hazardous reactions**

Stable if stored under normal conditions.

**10.4 Conditions to avoid**

When exposed to abnormally high temperatures containers will bulge and possibly burst.

**10.5 Incompatible materials**

Amines: reacts

**10.6 Hazardous decomposition products**

Hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke may be produced.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Acute toxicity: LD<sub>50</sub> / LC<sub>50</sub> values relevant for classification:

XYLENE:		Reaction product of bisphenol A-(epichlorohydrin): epoxy resin	
Oral (LD <sub>50</sub> )	4300 mg/kg (rat)	Oral (LD <sub>50</sub> )	≥2000 mg/kg (rat)
Dermal (LD <sub>50</sub> )	> 1700 mg/kg (rabbit)	Dermal (LD <sub>50</sub> )	≥2000 mg/kg (rabbit)
Inhalation (LC <sub>50</sub> )	27.6 mg/l / 4 hours (rat)	Inhalation (LC <sub>50</sub> )	>2000 mg/Kg (rabbit)

No carcinogenic, mutagenic, or genetic effects have been established.

An inhalation study for Formaldehyde: (polymer with chloromethyl) oxirane and phenol, MW≤700 not required under REACH annex VII.

Primary irritant effect: Skin and Inhalation sensitiser.

**BLEND OF LIGHT AROMATIC, MEDIUM ALIPHATIC PETROLEUM SOLVENT AND BENZENE**

On the skin Practically non-irritating.

On the eyes Irritant.

Orally Low toxicity.

Through inhalation Harmful. Can irritate the respiratory tract and cause headaches and giddiness.

Sensitisation: Prolonged skin contact may defat the skin resulting in possible irritation and dermatitis. Prolonged inhalation may cause CNS disturbances.

**EPOXY**

On the skin Slight to moderate irritation.

On the eyes Moderate eye irritation. May cause transient corneal damage.

Orally Low toxicity. May cause gastrointestinal irritation.

Through inhalation Low toxicity

Sensitisation May cause sensitisation by skin contact.

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

Aquatic toxicity: chronic.

**12.2 Persistence and degradability**

Not readily biodegradable.

**12.3 Bioaccumulative potential**

Ingredients have now bioaccumulative potential.

**12.4 Mobility in soil**

Low due to solidification after solvent release.

Additional ecological information:

General notes: Considered harmful to terrestrial vertebrates. May have short-term environmental effects. Contain, monitor and remove.

**12.3 Results of PBT and vPvB assessment**

Not applicable.

**12.4 Other adverse effects**

No further relevant information available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Recommendation: Hazardous in liquid state. Solidify if possible before disposal.

Use reputable waste disposal contractors. Destroy used containers. Consult local official regulations.

European waste catalogue	
08 00 00	Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks.
08 01 00	Wastes from MFSU and removal of paint and varnish.
08 01 11	Waste paint and varnish containing organic solvents or other dangerous substances.

**Uncleaned packaging**

Recommendation: Leave container unsealed for 3 to 4 days to solidify. Once solid, container may be disposed of in a landfill site. Disposal must be made according to official regulations.

**SECTION 14: TRANSPORT INFORMATION**

**14.1 UN-Number**

ADR, IMDG, IATA                      UN 1263

**14.2 UN proper shipping name**

ADR                                              1263 PAINT  
 IMDG, IATA                                  PAINT

**14.3 Transport hazard classes**

ADR		IMDG, IATA	
			
Class	3 Flammable liquids	Class	3 Flammable liquids
Label	3	Label	3

IMO class:                      3  
 EA code:                        127  
 HAZCHEM code:              3 (Y)

**14.4 Packing group**

ADR, IMDG, IATA                              III

**14.5 Environmental hazards**

Marine pollutant:                              ND (Not Dangerous)

<b>14.6 Special precautions for user</b>	Warning: Flammable liquids
Danger code (Kemler):	30
EMS Number:	F-E-S-E
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable
Transport/Additional information:	For ADR and IMDG: Transport and packing are in accordance with the regulation for limited quantities. This product is therefore non-dangerous goods.
<b>ADR</b>	
Limited quantities (LQ)	1 L and 4 L
Transport category	3

## SECTION 15: REGULATORY INFORMATION

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

Compliant with REACH, CLP and GHS.

### 15.2 Chemical safety assessment

Chemical Safety Assessment not yet performed due to registration timelines. Exposure scenarios for the mixture cannot be provided at the moment because exposure scenarios are not yet available for all relevant substances due to registration timelines. For advice on essential measures see sections 7 and 8 of this safety data sheet.

## SECTION 16: OTHER INFORMATION

PAY SPECIAL ATTENTION TO STORAGE AND HANDLING REQUIREMENTS.  
IN CASE OF ANY DISCOMFORT FROM CONTACT WITH THE MIXTURE, ALWAYS SEEK MEDICAL ADVICE.

### H phrases appearing in this document:

H226 Flammable liquid and vapour  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H312 + H332: Harmful in contact with skin or inhaled  
H335 May cause respiratory irritation  
H411 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Notice to Reader

Important Note: The information contained in this Data Sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and is believed to be correct at the date of its preparation. It is the user's responsibility to verify that this data sheet is current prior to using the product in which is detailed in it

Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to its use. Where those purposes are other than as specifically recommended in this safety data sheet, the user then uses the product at their own risk

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