Epox-eze Part A

Issued: 19/12/2019, Revision No: 1
Regulation (EC) No. 453/2010

1. IDENTIFICATION OF SUBSTANCE / MIXTURE OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Material name: Epox-Eze – Part A Base

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

Product use: Epoxy coating component

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier: IMG Ltd.,
Unit M
Riverside Industrial Estate
Fazeley
Tamworth
B78 3RW

Telephone: 01827 283322

Fax: 01827 250143

Email (for SDS): sales@img-limited.co.uk

1.4 Emergency tel. no: 01827 283322 (Available from 8.30 – 17.00 hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation:

Physical and Chemical hazards	Not classified
Human Health	Skin Irr.2; H315; Eye Irr.2; H319; Skin Sens.1; H317
Environment	Aquatic Chronic 2; H411

2.2 Label elements

Label according to EC Directives: 1272/2008/EC:

Signal word: Warning

Pictogram(s):

Contains: epoxy polymer, Phenol-Formaldehyde P olymer, Alkyl Glycidyl Ether, 4-Morpholinecarboxaldehyde.

Hazard Statements:	H319	Causes serious eye irritation.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements:	P280	Wear protective gloves/eye protection/ face protection.
	P273	Avoid release to the environment.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P501	Dispose of contents/container to requirements of local authorities.
Supplemental label elements:	EUH205	Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards: This mixture does not contain any substances that are assessed to be PBT or a vPvB.

The mixture may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components:

Chemical Name	CAS.No/ EC No./ Reg.No	Classification (1272/2008/EC)	Content
Epoxy Polymer	CAS: 25068-38-6 EC: 500-033-5 INDEX: 603-074-00-8	Skin Irr.2; H315 Eye Irr.2; H319 Skin Sens.1; H317 Aquatic Chronic 2; H411	≥10-<25%
Phenol-Formaldehyde Polymer	CAS: 9003-36-5 EC: 500-006-8	Skin Irr.2; H315 Skin Sens.1; H317 Aquatic Chronic 2; H411	≥10-<25%
Phenylmethanol	CAS: 100-51-6 EC: 202-859-9 INDEX: 603-057-00-5 REACH: 01-2119492630-38	Acute Tox.4; H302 Acute Tox.4; H332 Eye Irr.2; H319	≤10%
Alkyl Glycidyl Ether	CAS: 68609-97-2 EC: 271-846-8 INDEX: 603-103-00-4	Skin Irr.2; H315 Skin Sens.1; H317	≤5%
4-Morpholinecarboxaldehyde	CAS: 4394-85-8 EC: 224-518-3 REACH: 01-2119987933-12	Skin Sens.1; H317	≤0.3%

See Section 16 for the full text of the H statements declared above.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

Eye contact: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

Inhalation: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion: If swallowed seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Protection of first aiders: No action shall be taken involving any personal risk without suitable training. It may be dangerous to the person providing aid to give mouth to mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤700), oxirane, mono [(C12-14-alkyloxy)methyl] derivs.. May produce an allergic reaction.

Based on the properties of the epoxy constituents and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant.

4.3 Indication of any immediate medical attention and special treatment needed: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powders.

Unsuitable extinguishing media: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Decomposition products may include: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for fire-fighters

Special protective actions for fire-fighters

Cool closed containers exposed to fire with water. Do not release run off from fire to drains or watercourses.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to Sections 7 and 8 for protective measures. Keep unnecessary and unprotected personnel from entering.

For emergency responders: If specialised clothing is required to deal with the spillage. Take note of any information in Section 8 on suitable and unsuitable materials.

6.2 Environmental precautions

Do not allow to enter drains or watercourses. If the product contaminated lakes, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded.

Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in accordance with local regulations. Keep away from oxidising agents, strong alkalis, strong acids.

7.3 Specific end use(s)

Not available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.

8.2 Exposure controls

Engineering measures: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

Hand protection: Wear suitable gloves tested to EN 374.The user must check that the choice of glove selected for handling this product is the most appropriate.

Eye protection: Use safety eyewear designed to protect against splash of liquids.

Skin protection: Personnel should wear antistatic clothing made of natural fibres or of high-temperature resistant synthetic fibres. Personal protective equipment for the body should be selected based on the task being performed and the risk involved.

Respiratory protection: Use properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

Environmental exposure controls: Do not allow to enter drains or watercourses.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State and colour:	Liquid, various.
Odour:	Solvent.
Odour threshold:	No data available.
Flammability:	Not relevant/applicable due to the nature of the product.
Flash point:	499°C [Pensky-Martens Closed Cup]
Lower explosion limit:	1.3% (Phenylmethanol).
Upper explosion limit:	13% (Phenylmethanol).
Explosive properties:	No data available.
Thermal decomposition:	No data available.
Auto-ignition temperature:	Not relevant/applicable due to the nature of the product.
Oxidising properties:	No data available.
Solubility in water:	Not relevant/applicable due to the nature of the product.
Solubility in other solvents:	Not relevant/applicable due to the nature of the product.
pH:	No data available.
Melting point / range:	Not relevant/applicable due to the nature of the product.
Boiling point / range:	202°C.
Relative Density:	1.61
Vapour pressure:	0.02 kPa (@ 20°C).
Vapour density:	3.72 (Air = 1).
Partition coefficient: n-octanol / water:	No data available.
Viscosity (kinematic):	>0.205cm^2/s (40°C)
Evaporation rate:	Not relevant/applicable due to the nature of the product.

9.2 Other information No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity	Stable under recommended transport and storage conditions.
10.2 Chemical stability	Stable under recommended storage and handling conditions.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	When exposed to high temperatures may produce hazardous decomposition products.

10.5 Incompatible materials Keep away from the following materials; oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products Decomposition products may include the following materials; carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Contains reaction product: bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight ≤700), oxirane, mono[(C12-14-alkyloxy)methyl] derivs. May produce an allergic reaction.

Acute Toxicity

Chemical Name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Phenylmethanol	1230 mg/kg (Rat)	No data available	2000mg/kg (Rabbit)
Alkyl Glycidyl Ether	17100 mg/kg (Rat)	No data available	No data available

Acute Toxicity Estimates

Route	ATE Value
Oral Inhalation (vapours)	17561.65 mg 157.06 mg/l

Irritation / Corrosion

Chemical Name	Result	Species	Exposure
Epoxy Polymer	Eyes – Mild irritant	Rabbit	100 milligrams
	Skin – Moderate irritant	Rabbit	24 hours 500 microliters
	Skin – Severe irritant	Rabbit	24 hours 2 milligrams
Phenol-Formaldehyde Polymer	Skin – Mild irritant	Rabbit	24 hours 500 UI
Phenylmethanol	Skin – Mild irritant	Man	48 hours 16 milligrams
	Skin – Moderate irritant	Pig	100 percent
	Skin – Moderate irritant	Rabbit	24 hours 100 milligrams
Alkyl Glycidyl Ether	Skin – Moderate irritant	Rabbit	24 hours 500 UI

4-Morpholinecarboxaldehyde	Eyes – Mild irritant	Rabbit	24 hours 500 milligrams
	Skin – Mild irritant	Rabbit	24 hours 500 milligrams

Symptoms / routes of exposure

Skin corrosion / irritation: No data available.
Serious eye damage / irritation: If splashed in eyes may cause irritation and redness.
Respiratory or skin sensitisation: No data available.
Repeated dose toxicity: No data available.
Carcinogenicity: No data available.
Mutagenicity: No data available.
Toxicity for reproduction: No data available.
Specific target organ toxicity (STOT): No data available.
Further information: No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Chemical name	Species	Test	Value
Phenylmethanol	Fish – Lepomis macrochirus	Acute LC50 96h	10000 µg/l

12.2 Persistence and degradability No data available.
12.3 Bioaccumulative potential No data available.
12.4 Mobility in soil No data available.
12.5 Results of PBT and vPvB assessment This product is not identified as a PBT/vPvB substance.
12.6 Other adverse effects No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste: Yes.

European Waste Catalogue (EWC): waste paint and varnish containing organic solvents or other hazardous substances 08 01 11*

Packaging

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations: Using information in this SDS, advice should be obtained from the relevant waste authority on the classification of empty containers.

European Waste Catalogue (EWC): packaging containing residues of or contaminated by hazardous substances 15 01 10*

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.

14. TRANSPORT INFORMATION

14.1 UN number	ADR/RID/AND; IMDG; ICAO	3082
14.2 UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	
14.3 Transport hazard class(es)	ADR/RID/ADN Class	9
	ADR/RID/ADN Class	9
	ADR Label No.	9
	IMDG Class	9
	ICAO Class/Division	9
	ICAO Subsidiary Risk	9

Transport labels

14.4 Packing group	ADR/RID/AND; IMDG; ICAO	III
14.5 Environmental hazards	Yes	
14.6 Special precautions for user	Always transport in closed containers that are upright and secure.	
	Tunnel code: E	

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable.

15. REGULATORY INFORMATION

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

UK Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

EU Directives

Regulations (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Regulation EU 453/2010 amending Regulation (EC) No 1907/2006.

Statutory Instruments

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment

Chemical safety assessments / reports are not required for mixtures.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with Regulation EU 453/2010, amending Regulation (EC) No 1907/2006 (REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals).

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 (CLP):

Physical hazards:	On basis of test data / Expert judgement
Health hazards:	Calculation method
Environmental hazards:	Calculation method

Full text of H-statements referred to under sections 2 and 3

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H411	Toxic to aquatic life with long lasting effects

Abbreviations and acronyms

CAS	Chemical Abstract Service (division of the American Chemical Society) – Section 3.
STOT	Single Target Organ Toxicity – Section 11.
TWA	Time Weighted Average – Section 8.
STEL	Short Term Exposure Limit – Section 8.
DNEL	Derived No Effect Level – Section 8.
EC50	Effective Concentration, 50 percent – Section 12.
LD50	Lethal Dose, 50 percent – Section 11.
LC50	Lethal Concentration, 50 percent – Section 11.
PBT	Persistent, Bioaccumulative, Toxic – Section 12.
VPvB	very Persistent and very Bioaccumulative – Section 12.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall only be used as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

[final page]