

# TS72 Part A Base

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Issued: 08/10/2019, Revision No: 3  
Regulation (EC) No. 453/2010

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

- 1.1 Product Identifier**  
Material name: TS72 Part A Base
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Product use: Component of epoxy coating
- 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 Polymer, Alkyl Glycidal Ether, 4-Morpholinecarboxaldehyde

|                           |      |  |
|---------------------------|------|--|
| <b>Hazard Statements:</b> | H319 | Cause serious eye irritation.                    |
|                           | H315 | Causes skin irritation.                          |
|                           | H317 | May cause an allergic skin reaction.             |
|                           | H411 | Toxic to aquatic life with long lasting effects. |

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

**Other hazards:** 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               | EC: 500-033-5<br>CAS: 25068-38-6<br>INDEX: 603-074-00-8    | Skin Irr.2; H315<br>Eye Irr.2; H319<br>Skin Sens.1; H317<br>Aquatic Chronic 2; H411 | ≥50-≤75% |
| Phenol-Formaldehyde Polymer | EC: 500-006-8<br>CAS: 9003-36-5                            | Skin Irr.2; H315<br>Skin Sens.1; H317<br>Aquatic Chronic 2; H411                    | ≥25-≤50% |
| Alkyl Glycidyl Ether        | CAS: 68609-97-2<br>EC: 271-846-8<br>INDEX: 603-103-00-4    | Skin Irr.2; H315<br>Skin Sens.1; H317   | ≤10%     |
| 4-Morpholinecarboxaldehyde  | CAS: 4394-85-8<br>EC: 224-518-3<br>REACH: 01-2119987993-12 | Skin Sens.1; H317   | ≤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

|                        |   |
|------------------------|---|
| <b>General advice:</b> | 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. |
| <b>Eye contact:</b>    | Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.   |
| <b>Inhalation:</b>     | 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.      |
| <b>Skin contact:</b>   | Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing. Do NOT use solvents or thinners.  |
| <b>Ingestion:</b>      | If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.  |

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**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:** There are no data available on the mixture itself. If splashed in eyes or on skin, may cause irritation.

**4.3 Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

## 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

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.

## 6. ACCIDENTAL RELEASE MEASURES

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

Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Keep unnecessary people and unprotected personnel from entering.

### 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.

### 6.4 Reference to other sections

See section 13 for additional waste treatment information.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Handle with care. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

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

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Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Store in original container and keep container tightly closed.

## 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:** Ensure there is sufficient ventilation of the area.

#### **Personal Protective Equipment**

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practices.

**Hand protection:** Wear suitable gloves tested to EN374.

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

**Skin protection:** Protective clothing.

**Respiratory protection:** Self-contained breathing apparatus may be required if handling in a confined space with no ventilation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                                      |  |
|--------------------------------------|--|
| <b>State and colour:</b>             | Liquid.                                |
| <b>Odour:</b>                        | Solvent.                               |
| <b>Odour threshold:</b>              | No data available.                     |
| <b>Flammability:</b>                 | Not relevant due to nature of product. |
| <b>Flash point:</b>                  | 499°C [Pensky-Martens Closed Cup].     |
| <b>Lower explosion limit:</b>        | No data available.                     |
| <b>Upper explosion limit:</b>        | No data available.                     |
| <b>Explosive properties:</b>         | No data available.                     |
| <b>Thermal decomposition:</b>        | No data available.                     |
| <b>Auto-ignition temperature:</b>    | No data available.                     |
| <b>Oxidising properties:</b>         | No data available.                     |
| <b>Solubility in water:</b>          | Not relevant due to nature of product. |
| <b>Solubility in other solvents:</b> | No data available.                     |
| <b>pH:</b>                           | No data available.                     |
| <b>Melting point / range:</b>        | Not relevant due to nature of product. |
| <b>Boiling point / range:</b>        | Not relevant due to nature of product. |

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|  |                                  |
|--|----------------------------------|
| <b>Relative Density:</b>                         | 1.15.                            |
| <b>Vapour pressure:</b>                          | No data available.               |
| <b>Vapour density:</b>                           | No data available.               |
| <b>Partition coefficient: n-octanol / water:</b> | No data available.               |
| <b>Viscosity (kinematic):</b>                    | >0.205cm <sup>2</sup> /s @ 40°C. |
| <b>Evaporation rate:</b>                         | No data available.               |

**9.2 Other information** No data available.

## 10. STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | Stable under recommended transport and storage conditions.  |
| <b>10.2 Chemical stability</b>                 | Stable under recommended storage and handling conditions.   |
| <b>10.3 Possibility of hazardous reactions</b> | Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>10.4 Conditions to avoid</b>                | Prolonged heat.   |
| <b>10.5 Incompatible materials</b>             | Keep away from the following materials; oxidising agents, strong alkalis, strong acids.                                 |
| <b>10.6 Hazardous decomposition products</b>   | 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-(epichlorhydrin); 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)     |
|----------------------|-------------------|-------------------|-------------------|
| Alkyl Glycidyl Ether | 17100 mg/kg (Rat) | No data available | No data available |

#### Acute Toxicity estimates

No data available.

#### Symptoms / routes of exposure

#### **Skin corrosion / irritation:**

| 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 microliters |
| Alkyl Glycidyl Ether        | Skin – Moderate irritant | Rabbit  | 24 hours 500 microliters |

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|                            |  |                  |  |
|----------------------------|--|------------------|--|
| 4-Morpholinecarboxaldehyde | Eyes – Mild irritant<br>Skin – Mild irritant | Rabbit<br>Rabbit | 24 hours 500 milligrams<br>24 hours 500 milligrams |
|----------------------------|--|------------------|--|

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

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No data available

**12.2 Persistence and degradability** No data available.

### 12.3 Bioaccumulative potential

| Chemical Name              | LogP <sub>ow</sub> | BCF        | Potential |
|----------------------------|--------------------|------------|-----------|
| Epoxy Polymer              | -                  | 31         | Low       |
| Alkyl Glycidal Ether       | -                  | 160 to 263 | Low       |
| 4-Morpholinecarboxaldehyde | -                  | <1.9       | Low       |

|  |   |
|--|---|
| <b>12.4 Mobility in soil</b>                   | No data available.                                      |
| <b>12.5 Results of PBT and vPvB assessment</b> | This product is not identified as a PBT/vPvB substance. |
| <b>12.6 Other adverse effects</b>              | No data available.                                      |

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Dispose of in accordance with local/national regulations. Do not allow to enter drains or watercourses. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Do not dispose of together with household waste. Contact licensed waste disposal company. Treat as hazardous waste. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### European Waste Catalogue (EWC):

08 01 11\* - Waste paint and varnish containing organic solvents or other hazardous substances.

15 01 10\* - Packaging containing residues of or contaminated by hazardous substances.

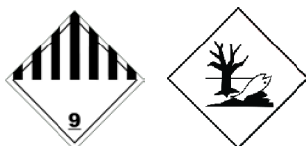
## 14. TRANSPORT INFORMATION

|                                     |   |      |
|-------------------------------------|---|------|
| <b>14.1 UN number</b>               | ADR/RID/AND; IMDG; ICAO   | 3082 |
| <b>14.2 UN Proper shipping name</b> | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (PHENOL-FORMALDEHYE POLYMER) |      |

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|  |                      |         |
|--|----------------------|---------|
| <b>14.3 Transport hazard class(es)</b> | ADR/RID/ADN Class    | 9       |
|  | ADR/RID/ADN Class    | Class 9 |
|  | ADR Label No.        | 9       |
|  | IMDG Class           | 9       |
|  | ICAO Class/Division  | 9       |
|  | ICAO Subsidiary Risk | 9       |



## Transport labels

|   |                         |                 |
|---|-------------------------|-----------------|
| <b>14.4 Packing group</b>   | ADR/RID/AND; IMDG; ICAO | III             |
| <b>14.5 Environmental hazards</b>   | Marine Pollutant        | Yes             |
| <b>14.6 Special precautions for user</b>  | EMS                     | F-A, S-F        |
| <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:</b> |                         | 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 (EC) No 1907/2006 (REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals) as amended and Regulation EU 453/2010.

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

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**Health hazards:** Calculation method  
**Environmental hazards:** Calculation method

**Tariff number:** 39073000

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

H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation  
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.  
NOEC No Observed Effect Concentration – Section 12.  
PNEC Predicted No Effect Concentration - Section 8.  
PBT Persistent, Bioaccumulative, Toxic – Section 12.  
VPvB very Persistent and very Bioaccumulative – Section 12.  
EC50 Effective Concentration, 50 percent – Section 12.  
LC50 Lethal Concentration, 50 percent (Section 11/12).  
LD50 Lethal Dose, 50 percent (Section 11).

**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.

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