Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

TS72 Primed Hardener

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

1.1 Product Identifier

Material name : TS72 Primer Hardener
Product code :

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

Tel. : 01827 283322
Fax. : 01827 250143

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

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

2. HAZARDS IDENTIFICATION

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

Physical and Chemical Hazards	Not classified
Human health	Acute Tox.4; H302; Sk.Corr.1B; H314; Sk.Sens.1; H317; Eye Dam.1; H318; Repr.1B; H360f
Environment	Aq.Acute 1: H400; Aq.Chronic 1; H410

2.2 Label elements

Labelling according to EC Directives: 1272/2008/EC

Signal word: Danger **Contains:** Amino polymer; Polyaminoamide epoxy resin adduct; 4,4'-Isopropylidenediphenol; n-Amino Piperazine

Pictograms:

Hazard statements:

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H360	May damage fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

IMG DISTRIBUTORS
Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

Precautionary statements:

P260	Do not breathe dust/fumes/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331	IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P303+361+353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P310	Immediately call a POISON CENTRE/ Doctor.
P305+351+338	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 in accordance with national regulations.

2.3 Other hazards: No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components

Chemical Name	CAS No./ EC No./ Reg. No	Classification (1272/2008/EC)	Content
AMINO POLYMER	135108-88-2 603-894-6 01-211983522-33	Acute Tox.4; H302 Sk.Corr.1B; H314 Eye Dam.1; H318	25-50%
POLYAMINOAMIDE EPOXY RESIN ADDUCT	186321-96-0 01-2119983521-35	Sk.Irrit.2; H315 Sk.Sens.1; H317 Eye Dam.1; H318 Aq.Acute 1; H400; Aq.Chron.1; H410	10-25%
BENZYL ALCOHOL	100-51-6 202-859-9 01-2119492630-38	Acute Tox.4; H302+332	10-25%
4,4'-ISOPROPYLIDENEDIPHENOL	80-05-7 201-245-8 01-2119457856-23	Repr.2; H361f Eye Dam.1; H318 Sk. Sens.1; H317 STOT SE3; H335	<10%
n-AMINOETHYL PIPERAZINE	140-31-8 205-411-0	Ac.Tox.4; H302+312 Sk.Corr.1B; H314 Sk.Sens.1; H317 Eye Dam.1; H318 Aq.Chron.3; H412	<10%
4-NONYLPHENOL	84852-15-3 284-325-5	Ac.Tox.4; H302 Sk.Corr.1B; H314 Eye Dam.1; H318 Repr.2; H361fd Aq.Acute 1; H400; Aq.Chron.1; H410	<3%
TETRAETHYLENEPENTAMINE	112-57-2 203-986-2 01-2119487290-37	Acute Tox.4; H302, H312 Sk.Corr.1B; H314 Sk.Sens.1; H317 Eye Dam.1; H318 Aq.Chron.2; H411	<3%
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	90-72-2 202-013-9 01-21194560597-27	Ac.Tox.4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319	<3%
AMINOPROPYLDIMETHYLAMINE	109-55-7 203-680-9	Flam.Liq.3; H226 Acute Tox.4; H302 Sk.Corr.1B; H314 Sk.Sens.1; H317 Eye Dam.1; H318	<3%

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

Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.

Skin contact: Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if burns are apparent.

Eye contact: Rinse with water for 15 minutes and seek medical advice if irritation persists.

Ingestion: Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

Inhalation: No undue effects in normal circumstances, if affected remove to fresh air and seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed: May cause burns to skin and eyes.

4.3 Indication of any immediate medical attention and special treatment needed: See skin and eye contact information above.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Product is non-flammable; use appropriate extinguishing media for the surrounding area.

Unsuitable extinguishing media: Not applicable.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

5.3 Advice for fire-fighters:

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Standard procedure for chemical fires. Use water spray to cool unopened containers. Do not allow fire run-off to enter drains.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage.

6.2 Environmental precautions

Contain the spillage using sufficient appropriate absorbent material. Do not discharge into drains or rivers, but if contamination to waterways has occurred, inform local authorities.

6.3 Methods and materials for containment and cleaning up

Wipe up any liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

IMG DISTRIBUTORS
Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

6.4 References to other sections

See sections 8 and 13 for personal protection and disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Handle with care.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area between 5°C and 25°C. Keep container tightly closed.

7.3 Specific end use(s): No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Chemical name	8hr TWA	15min STEL	Information/Reference
4,4'-Isopropylidenediphenol	10 mg/m^3	-	Inhalable dust (EH40)

DNEL/PNEC: No information available.

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Personal protective equipment

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

Hand protection: Neoprene or nitrile gloves; check with glove manufacturer for specific advice.

Eye protection: Tightly-fitting safety goggles.

Skin and body protection: Protective overalls.

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

Environmental exposure controls: Do not discharge into drains or rivers.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State and colour	Coloured liquid
Odour	Amine-like
Odour Threshold	No data available
Flammability	Non-flammable
Flash point	499°C (Method: Pensky-Martens Closed Cup)
Lower explosion limit	1.3%
Upper explosion limit	13%
Explosive properties	Not explosive
Thermal decomposition	No data available

IMG DISTRIBUTORS
Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

9.1 Information on basic physical and chemical properties (continued)

Auto-ignition temperature	No data available
Oxidising properties	Non-oxidising
Solubility in water	No data available
Solubility in other solvents	Not determined
pH	Data not available
Melting point/range	Not determined
Boiling point/range	132°C
Density	1.01
Vapour pressure	0.93 kPa @ 20°C
Vapour density	3.72 (air = 1)
Partition coefficient: n-octanol/water	No data available
Viscosity (kinematic)	>0.205 cm^2/s @ 40°C
Evaporation rate	No data available

9.2 Other information VOC content: 224 g/l

10. STABILITY AND REACTIVITY

10.1 Reactivity	Generally non-reactive.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None if stored and used as directed.
10.4 Conditions to avoid	Prolonged heat.
10.5 Incompatible materials	Strong acids. Strong alkalis. Strong oxidising agents.
10.6 Hazardous decomposition products	Oxides of carbon. Oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Benzyl alcohol	1230 mg/kg (Rat)	53 mg/kg (Rat) 4h	No data available
4,4'-Isopropylidenediphenol	3250 mg/kg (Rat)	No data available	No data available
4-Nonylphenol	1300 mg/kg (Rat)	No data available	No data available
Tetraethylenepentamine	3990 mg/kg (Rat)	No data available	No data available

Skin corrosion/irritation: May cause skin burns.

Serious eye damage/eye irritation: May cause eye damage.

Respiratory or skin sensitisation: May cause skin sensitisation.

Repeated dose toxicity: 4,4'-Isopropylidenediphenol may cause respiratory tract irritation.

Carcinogenicity: Not carcinogenic.

Mutagenicity: Not mutagenic.

Toxicity for reproduction: 4,4'-Isopropylidenediphenol is suspected of damaging fertility.

Specific target organ toxicity (STOT): No data available.

Further information: No data available.

IMG DISTRIBUTORS
Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Chemical name	Species	Test	Value
Benzyl alcohol	Fish	LC50 96h	10 mg/l
4,4'-Isopropylidenediphenol	Daphnia	EC50 48h	7.75 mg/l
4-Nonylphenol	Fish	NOEC 96h	17µg/l

12.2 Persistence and degradability Not readily biodegradable.
12.3 Bioaccumulative potential 4,4'-Isopropylidenediphenol BCF: 20 to 67; low bioaccumulation potential.
4-Nonylphenol BCF: 740; high bioaccumulation potential.
12.4 Mobility in soil No data available.
12.5 Results of PBT and vPvB assessment No data available.
12.6 Other adverse effects Toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal operations: Dispose of in accordance with local and national regulations. Do not dispose of waste into sewer.
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.
Do not burn or use a cutting torch on the empty container.

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

14.1 UN number	ADR/RID/ADN; IMDG; ICAO	3066
14.2 UN proper shipping name	PAINT RELATED MATERIAL	
14.3 Transport hazard class(es)	ADR/RID/ADN Class	8
	ADR/RID/ADN Class	Class 8
	ADR Label No.	8
	IMDG Class	8
	ICAO Class/Division	8
	ICAO Subsidiary risk	8
	Transport labels	
14.4 Packing Group	ADR/RID/ADN; IMDG; ICAO	III
14.5 Environment hazards	Marine Pollutant	No
14.6 Special precautions for user	EMS	F-A, S-B

IMG DISTRIBUTORS
Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

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 (CSA/CSR) 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):

Acute Tox.4; H302:	Calculation method
Skin Corr.1B; H314:	Calculation method
Skin Sens.1; H317:	Calculation method
Eye Dam.1; H318:	Calculation method
Repr.1B; H360f:	Calculation method
Aquatic Acute 1: H400:	Calculation method
Aquatic Chronic 1; H410:	Calculation method

Tariff number: 39073000

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

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin.
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.
H335	May cause respiratory irritation
H360f	May damage 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.
H412	Harmful to aquatic life with long lasting effects.

Telephone: (44)01827 255719
Email: distributors@img-limited.co.uk
Industrial Maintenance Group Distributors
Riverside Industrial Estate
Fazeley, Tamworth
Staffordshire, B78 3RW

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).
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 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.