



1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name DURA INDUSTRIAL CONCRETE PRIMER (PART B) (DI032)

Synonyms Accelerated amidoamine curing agent

Dura Paints (PTY) Ltd 5 Wakefield Road, Founders View South, Edenvale, 1610, South Africa.

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Class Curing agent Classification Liquid Form

Comment

S-Phrases:

Hazardous and or

other relevant components. Harmful.

Reproduction Category 3

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Weight %
4,4'-Isopropylidenebisphenol	80-05-7 201-245-8	Xn	R37; R41; R43; R62	< 10
DIETHYLENETRIAMINE	111-40-0 203-865-4	С	R21/22; R34; R43	< 10
Tetraethylenepentamine	112-57-2 203-986-2	C, Xn, N	R21/22; R34; R43; R51/53	< 10

Human health hazards Risk of serious damage to eyes. May cause sensitization by skin contact. Possible risk of impaired

fertility. Irritation to eyes and skin.

Safety hazards Not classified as flammable but will burn.

Environmental Effects Dangerous for the environment.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Physical and chemical hazards Formation of toxic products through combustion

R-Phrases: R38 - Irritating to skin

R41 - Risk of serious damage to eyes

R43 - May cause sensitisation by skin contact

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation R52/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R62 - Possible risk of impaired fertility

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28A- After contact with skin, wash immediately with plenty of soap and water.

S29 - Do not empty into drains

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

S46 - If swallowed, seek medical advice immediately and show this container or label S61 - Avoid release to the environment. Refer to special instructions/safety data sheet

3. HAZARDS IDENTIFICATION

Human health hazards Risk of serious damage to eyes. May cause sensitization by

skin contact. Possible risk of impaired fertility. Irritating to eyes

and skin.

Safety hazards Not classified as flammable but will burn.

Environmental hazards Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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FIRST AID MEASURE

General advice Get medical attention immediately if symptoms occur attention.

Remove to fresh air. If rapid recovery does not occur, obtain medical attention. Inhalation

Skin contact DO NOT DELAY.

Inhalation Remove contaminated clothing.

Wash skin with water using soap if available.

If persistent irritation occurs, obtain medical attention.

Eye contact DO NOT DELAY.

Flush eye with water.

OBTAIN MEDICAL ATTENTION IMMEDIATELY.

DO NOT DELAY. Ingestion

Do not induce vomiting. Give nothing by mouth. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

May cause severe eye irritation. Notes to physician

Symptoms Risk of serious damage to eyes.

Irritating to skin.

Treatment Pre-existing skin or respiratory disorders may be aggravated by exposure to this product.

If skin sensitisation has developed and a causal relationship has been confirmed, further exposure

should not be allowed. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media Use foam, water spray or water mist.

Unsuitable Extinguishing Media

Water in a jet.

Special Hazards Not classified as flammable but will burn.

Fighting Hazardous combustion products may include oxides of nitrogen, carbon monoxide, unidentified

organic compounds

Full protective clothing and self-contained breathing apparatus. Protective Equipment

ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes, clothing

> Evacuate the area of all non-essential personnel. Shut off leaks, if possible without personal risk.

Environmental Precautions: Do not allow product to enter sewage drains, soil or watercourses.

Prevent contamination of soil and water.

Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other

appropriate barriers

Clean up method - small Absorb or contain liquid with sand, earth or spill control material.

spillage

Shovel up and place in a labelled, sealable container for subsequent safe disposal.

Put leaking containers in a labelled drum or over drum. Scrub contaminated surfaces with detergent solution

Retain washings as contaminated waste.

Clean-up methods - large

Packaging materials:

Transfer to a labelled, sealable container for product recovery

spillage or safe disposal.

Treat residues as for small spillage.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:

Technical measures: Precautions to be taken in handling and storage as per packaging instructions.

Safe handling: Observe all relevant local regulations. Avoid contact with eyes. Use in well ventilated area

Hygiene measures: Take of immediately all contaminated clothing. Avoid contact with the skin and the eyes. Avoid drink or

smoke. Wash hands after handling. Remove contaminated clothing and protective equipment before

entering eating areas.

Keep in original container. Keep container tightly closed and in a cool, well-ventilated

place. Keep container dry.

Store in accordance with local regulations. Store in a cool, dry, well ventilated area away from direct Storage conditions:

sun, sources of heat, and severe cold.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components with workplace control parameters	Regulation / Update	Exposure time	Value	Remarks
4,4'- Isopropylidenebisphenol	ACGIH			None established.
DIETHYLENETRIAMINE	ELV (FI)/1998	Time Weighted Average (TWA):	1 ppm 4,3 mg/m3	
	ELV (FI)/1998	Short Term Exposure Limit (STEL):	3 ppm 13 mg/m3	
	ELV (FI)/1998	Skin designation:		Can be absorbed through the skin.
Tetraethylenepentamine	ACGIH			None established.

Respiratory protection In case of insufficient ventilation use suitable respiratory protection.

If risk of inhalation, use approved respirator (e.g. CEN, NIOSH/OSHA, AS) as required to prevent over

exposure. Use an air-supplied respirator where high concentrations are

expected, or an air-purifying respirator for organic vapours (with combined particulate filter if mist is

present). Note: an air supplied respirator should always be used in confined spaces.

Skin Avoid contact as far as possible. Observe the rules of hygiene. Wash before eating, drinking or

smoking. Use barrier cream and gloves.

Material of gloves for long term application (BTT>480min): Butyl rubber Ethyl Vinyl Alcohol Laminate (EVAL) gauntlet type

Material of gloves for short term/splash application (10min<BTT<480min): Nitrile rubber gauntlet type

Use gloves approved to relevant standards e.g. EN 374

(Europe), ASTM F739 (US). Suitability and durability of a glove is dependent on usage, e.g.

frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek

advice from glove suppliers. Standard issue work clothes

Safety boots - chemical resistant without lace holes

Wear PVC or nitrile rubber gloves, gauntlet type, PVC one-piece suit with integral hood, safety boots -Protective measures

rubber, knee length, full face-piece respirator with organic vapour canister NPF 400

In a confined space, wear self-contained breathing apparatus open circuit type NPF 2000

Avoid direct contact. Never touch eyes with dirty hands or gloves. Use safety glasses.

Monogoggles

Indestion Observe the rules of hygiene. Wash hands before eating, drinking or smoking.

Appropriate engineering controls Frequently monitor and control the working atmosphere. Provide appropriate exhaust ventilation at

machinery.

Use local exhaust ventilation. Engineering measures Protective measures Environmental exposure controls

Observe all relevant local regulations.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid Odour Aminic

Colour: Amber Viscosity @ 25 C 700 mPa·s at 25 °C

Water solubility Partially soluble. Boiling point > 207 °C Flash point > 93 °C Lower explosion limit 1,4 %(V)

< 13,3 Pa at 20 °C Vapour pressure Partition coefficient

Density 976 kg/m3 at 25 °C (noctanol/water) Data not available.

10. STABILITY AND REACTIVITY

Stable under normal conditions.

Eyes

No reaction with fire-fighting water. Avoid contact with strong oxidising agents.

Incompatibility (material to avoid) Acids, Oxidising agents.

Conditions to avoid Keep away from heat, sparks, open flame and strong oxidising agents.

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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity Expected to be of low toxicity, LD50 > 2000 mg/kg. Acute dermal toxicity Expected to be of low toxicity, LD50 > 2000 mg/kg.

Eye irritation Expected to be a severe irritant. Skin irritation Expected to be irritant.

Sensitization Expected to be a skin sensitiser.

Mutagenicity A component has exhibited evidence for weak mutagenic

activity in standard in vitro test systems.

Other information Repeated exposure to high vapor concentrations of

Tetraethylenepentamine (TEPA) may cause injury to the liver,

kidney, and respiratory system.

Respiratory irritation Inhalation of vapours or mists may cause irritation.

Basis for assessment Information given is based on product data, a knowledge of the

components and the toxicology of similar products. See Section 4 for information regarding acute effects to

humans.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability Expected to be not readily biodegradable.

Bioaccumulation Contains components with the potential to bioaccumulate.

Ecotoxicity effects

Human effects

Toxicity to fish Expected to be slightly toxic, 10 < LC/EC/IC 50 <= 100 mg/l. Expected to be slightly toxic, 10 < LC/EC/IC 50 <= 100 mg/l. Acute toxicity invertebrates Expected to be slightly toxic, 10 < LC/EC/IC 50 <= 100 mg/l.

Mobility Partly dissolves, but a significant proportion will remain after

one day.

If product enters soil, one or more constituents will be mobile

and may contaminate groundwater.

Sewage treatment Expected to be slightly toxic, 10 < LC/EC/IC 50 <= 100 mg/l. Ecotoxicological data have not been determined specifically for

this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar

products.

13. DISPOSAL CONSIDERATIONS

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. Exercise caution in disposal of used containers

Product disposal Recover or recycle if possible. Otherwise: Incineration with wet scrubbing facilities.

Dispose to licensed disposal contractor.

Container disposal: Keep container labelled until cleaned and then remove or

deface labels. Drain container thoroughly. Rinse three times with suitable solvent. Treat rinsing's as for

product disposal. Send to drum recoverer or metal reclaimer.

The recommendations given are considered appropriate for safe disposal. However, local regulations

may be more stringent and these must be complied with.

14. TRANSPORT INFORMATION

Local legislation

ADR: Regulation:
RID: Regulation:
ADNR: Regulation:
ADNR: Regulation:
ICAO/IATA-DGR: Regulation:
IMDG: Regulation:
NOT REGULATED FOR TRANSPORT
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NOT REGULATED FOR TRANSPORT
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15. REGULATORY INFORMATION

Classification: Classified as hazardous

Toxic to Reproduction Category 3 Dangerous for the environment.



Xn - Harmful

R-Phrases R38 - Irritating to skin

R41 - Risk of serious damage to eyes

R43 - May cause sensitisation by skin contact

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation R52/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R62 - Possible risk of impaired fertility

S-Phrases S2 - Keep out of reach of children.

S24/25 - Avoid contact with eyes and skin

16. OTHER INFORMATION

This data is offered in good faith as typical values and not as a product specification. No warranty, whether expressed or implied is made. All information is given in good faith, but without guarantee in respect of accuracy and no responsibility is accepted for errors or omissions or the consequences thereof. The current version of this MSDS and a Technical Data Sheet (TDS) are available from Dura Paints website - www.durapaints.co.za. This product must only be used in conjunction with Dura Concrete Primer (Part A) in the ratios specified in the Technical Data Sheet (TDS) – Dura Concrete Primer (Part A & B) / Dl038.

Ceiling limit **NEGL** Negligible **EST** Estimated NF None found Unknown NA Not applicable UNKN = NE None established Recommended REC

ND = None determined V = Recommended by vendor

 $egin{array}{lll} TS &=& Trade\ secret & SKN &=& Skin \ R &=& Recommended & MST &=& Mist \ \end{array}$

END OF MSDS

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