

SECTION 1: Identification of the substance/mixture and of the supplier/undertaking

1.1. GHS product identifier

| | |
|-----------------|-----------------------------------|
| Product form | : Mixture |
| Trade name | : Dura - Concrete Primer Catalyst |
| Type of product | : Coatings |
| Product code | : CONCRPRICAT |
| Product group | : Trade product |

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : For use with concrete primer as per instruction

1.4. Supplier's details

Manufacturer

Dura Paints (Pty) Ltd.
5 Wakefield Road; Founders View South.
P.O. Box 303
1610 Edenvale; Johannesburg – South Africa
T 011 452 5221
Contact: Lizel Rosemann

1.5. Emergency phone number

Emergency number : 079 494 2731 / 011 452 5221

SECTION 2: Hazard identification

2.1. GHS classification of the substance/mixture and any national or regional information

Classification according to the United Nations GHS

| | |
|---|----------------|
| Flammable liquids | Not classified |
| Skin corrosion/irritation, Category 1B | H314 |
| Serious eye damage/eye irritation, Category 1 | H318 |
| Skin sensitisation, Category 1 | H317 |
| Specific target organ toxicity – Repeated exposure, Category 2 | H373 |
| Hazardous to the aquatic environment – Acute Hazard, Category 2 | H401 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 2 | H411 |

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects : May cause damage to organs through prolonged or repeated exposure, Causes severe skin burns and eye damage, May cause an allergic skin reaction, Causes serious eye damage, Toxic to aquatic life, Toxic to aquatic life with long lasting effects.

2.2. GHS label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA) :



Signal word (GHS-ZA) :

Danger

Hazardous ingredients

Bisphenol-A; 2,2'-iminodi(ethylamine); Tetraethylenepentamine

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| | |
|-----------------------------------|---|
| Hazard statements (GHS ZA) | : H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H373 - May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation) H411 - Toxic to aquatic life with long lasting effects |
| Precautionary statements (GHS ZA) | : P102 - Keep out of reach of children. P103 - Read carefully and follow all instructions. P261 - Avoid breathing mist, spray, vapours, dust. P264 - Wash hands, forearms and face thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear eye protection, protective clothing, protective gloves. P305+P354+P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

2.3. Other hazards which do not result in classification or are not covered by the GHS

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to the United Nations GHS |
|--------------------------|--------------------|------|---|
| Bisphenol-A | CAS-No.: 80-05-7 | < 10 | Skin Corr./Irrit. Not classified Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 2,2'-iminodi(ethylamine) | CAS-No.: 111-40-0 | < 10 | Flam. Liq. Not classified Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic Not classified |
| Tetraethylenepentamine | CAS-No.: 112-57-2 | < 10 | Flam. Liq. Not classified Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |

SECTION 4: First aid measures

4.1. Description of necessary first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Call a physician immediately. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion | : Rinse mouth. Do not induce vomiting. Call a physician immediately. |

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4.2. Most important symptoms/effect, acute and delayed

| | |
|-------------------------------------|---|
| Symptoms/effects after skin contact | : Burns. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |
| Symptoms/effects after ingestion | : Burns. |

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective actions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

| | |
|-------------------------|---|
| For containment | : Collect spillage. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|---|
| Precautions for safe handling | : Ensure good ventilation of the work station. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment. |
| Hygiene measures | : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection : Protective gloves
Eye protection : Safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment
Personal protective equipment symbol(s)



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Liquid
Appearance : Clear liquid.
Colour : amber.
Odour : Amine-like.
Odour threshold : No data available
pH : No data available
pH solution : No data available
Relative evaporation rate (butylacetate=1) : No data available
Relative evaporation rate (ether=1) : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : > 207 °C
Flash point : > 93 °C
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability : Non flammable.
Vapour pressure : < 13.3 Pa
Vapour pressure at 50°C : No data available
Relative vapour density at 20°C : No data available
Relative density : No data available
Relative density of saturated gas/air mixture : No data available
Density : ≈ 976 kg/m³
Relative gas density : No data available
Solubility : In water, material is partially soluble.
Partition coefficient n-octanol/water (Log Pow) : No data available
Partition coefficient n-octanol/water (Log Kow) : No data available
Viscosity, kinematic : ≈ 717.213 mm²/s
Viscosity, dynamic : ≈ 700 mPa·s
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

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| | |
|-----------------------|---------------------|
| Lower explosion limit | : ≈ 1.4 vol % |
| Upper explosion limit | : No data available |
| Physical state | : Liquid |
| Appearance | : Clear liquid. |

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and Reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical Stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

Bisphenol-A (80-05-7)

| | |
|--------------------|-------------------------|
| LD50 oral rat | 4100 mg/kg Source: HSDB |
| LD50 dermal rabbit | 3000 mg/kg Source: HSDB |

Tetraethylenepentamine (112-57-2)

| | |
|--------------------|------------|
| LD50 oral rat | 3990 mg/kg |
| LD50 dermal rabbit | 660 mg/kg |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Causes severe skin burns. |
| Serious eye damage/irritation | : Causes serious eye damage. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |

Bisphenol-A (80-05-7)

| | |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

STOT-repeated exposure : May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).

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| 2,2'-iminodi(ethylamine) (111-40-0) | |
|--|--|
| LOAEL (oral, rat, 90 days) | 530 – 620 mg/kg bodyweight Animal: rat, Guideline: other: |
| NOAEL (oral, rat, 90 days) | 70 – 80 mg/kg bodyweight Animal: rat, Guideline: other: |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

Aspiration hazard : Not classified

| Dura - Concrete Primer Catalyst | |
|--|------------------------------|
| Viscosity, kinematic | ≈ 717.213 mm ² /s |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

| Bisphenol-A (80-05-7) | |
|--|---|
| LC50 - Fish [1] | 7.5 mg/l Source: HSDB |
| 2,2'-iminodi(ethylamine) (111-40-0) | |
| LC50 - Fish [1] | 0.43 g/l Test organisms (species): Poecilia reticulata |
| EC50 - Crustacea [1] | 64.6 mg/l Test organisms (species): Daphnia magna |
| EC50 - Crustacea [2] | 16 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 1164 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 187 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | 11.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 5.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | > 10 mg/l Test organisms (species): Gasterosteus aculeatus Duration: '28 d' |

12.2. Persistence and degradability

| Dura - Concrete Primer Catalyst | |
|--|-------------------------------------|
| Persistence and degradability | No additional information available |

12.3. Bioaccumulative potential

| Dura - Concrete Primer Catalyst | |
|--|-------------------------------------|
| Bioaccumulative potential | No additional information available |

| Bisphenol-A (80-05-7) | |
|---|-------------------|
| Partition coefficient n-octanol/water (Log Kow) | 3.32 Source: HSDB |

| Tetraethylenepentamine (112-57-2) | |
|---|-------|
| Partition coefficient n-octanol/water (Log Kow) | -3.16 |

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12.4. Mobility in soil

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| | |
|------------------|-------------------------------------|
| Mobility in soil | No additional information available |
|------------------|-------------------------------------|

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available




SECTION 13: Disposal Considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

| SANS | IMDG | IATA |
|---|---|---|
| 14.1. UN number | | |
| Not regulated for transport | | |
| 14.2. UN Proper Shipping Name | | |
| Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | |
| Not applicable | Not applicable | Not applicable |
|  |  |  |
| 14.4. Packing group, if applicable | | |
| Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | |
| Dangerous for the environment : Yes | Dangerous for the environment : Yes Marine pollutant : Yes | Dangerous for the environment : Yes |
| No supplementary information available | | |

14.6. Special precautions for user

SANS

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to IMO instructions

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

Issue date : 05/09/2023

| Full text of H-statements: | |
|----------------------------|---|
| H302 | Harmful if swallowed |
| H311 | Toxic in contact with skin |
| H312 | Harmful in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H335 | May cause respiratory irritation |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H401 | Toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |

Safety Data Sheet (SDS), South Africa (HCA)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.