



## Safety Data Sheet

According to 1907/2006/EC , Article 31

### 1 - Identification of the substance/preparation and of the company/undertaking

#### Product details

- Trade name: **Dura Epoxy Hardener.**
- **Manufacturer/Supplier:**  
German Surface treatment chemicals Co.  
AL Fawzan industry Area  
Riyadh  
Saudi Arabia Kingdom  
[amirqasqas@sugest.com.sa](mailto:amirqasqas@sugest.com.sa)
- **Further information obtainable from:** Product safety department
- **Information in case of emergency:** During normal opening times: +966 11 4647711

### 2. Hazards identification

#### Main hazards

The product is harmful following acute exposure to it and poses a serious health threat if inhaled, ingested, or brought into contact with the skin.

The product is highly corrosive and, if brought into contact with the skin, causes serious burning, with the rapid destruction of the entire thickness of skin tissue.

If brought into contact with the skin, the product may cause sensitisation of the skin.

This product is a threat to the environment; it is harmful to aquatic organisms following acute exposure.

In the long term this product may have negative effects on the aquatic environment, because it is not easily biodegradable and/or bioaccumulable.

This product is harmful - it is suspected that it can impair human fertility.



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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients	Conc.	CAS	EINECS	CAS Symbols/Risk phrases
M-phenylenebis(methylamine); 1,3-Benzenedimethaneamine	30 - 50%	1477-55-0	216-032-5	Xn,Xi,C; R20/22-35-43-52/53
3-3'-ethylenedioxybis(propylamine)	20 - 30%	2997-01-5	221-067-4	Xn,Xi,C; R21-34-43
4,4'-isopropylidenediphenol	20 - 30%	80-05-7	201-245-8	3,Xi; R37-41-43-62
Polyoxypropylendiamin	10-20%	9046-10-0		C; R34

### 4. FIRST AID MEASURES

**Skin contact** Immediately take off all contaminated clothing.

Remove the product with a cloth or absorbent paper. Do not use solvents.

Wash with plenty of water and soap.

Seek medical advice.

**Eye contact** Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. Seek medical advice.

Do not use eyewash or ointment of any kind before obtaining an examination or advice



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from an ophthalmologist.

**Inhalation** Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. Call a physician.

**Ingestion** Do not under any circumstance induce vomiting. Seek medical advice immediately.

## 5. FIRE FIGHTING MEASURES

**Extinguishing media**

Use as appropriate: carbon dioxide (CO<sub>2</sub>), dry chemical, foam.

**Fire hazards**

Corrosive. Burning produces irritating, toxic and obnoxious fumes.

**Protective equipment**

Wear suitable respiratory equipment when necessary.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** Ensure adequate ventilation of the working area. Evacuate personnel to a safe area.  
Wear suitable protective equipment.

**Environmental precautions**

Limit leakages with earth or sand.

If the product has flown off into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the responsible authorities.

**Clean up methods** Rapidly collect the product. To do so, wear a mask and protective clothing.

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination in compliance with waste disposal regulations in force. The product might, where appropriate, be absorbed by inert material.

After the product has been removed, rinse the involved area and materials with water that must be disposed in compliance with regulations in force.



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## 7. HANDLING AND STORAGE

- Handling** Avoid contact with and inhalation of vapours and/or dusts. See also paragraph 8 below.  
Do not eat or drink or smoke while working. Wash hands before breaks and at the end of work. Maintain sufficient personal care.
- Transportation vehicles must be covered well to avoid direct sunlight.
- Incompatible materials:** The product reacts with acids, isocyanates, oxidants as well as epoxy, chlorinated and carbonylic compounds.
- Storage conditions** The product is moisture sensitive. Keep in a dry place in the original containers tightly closed. Instructions regarding storage facilities:  
Temperature must not exceeds more than 30 Celsius.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering measures** Ensure adequate ventilation of the working area.
- Respiratory protection** Required where ventilation/aspiration is insufficient or exposure is prolonged, or for applications in which the product is sprayed or heated.  
Required in case of machining or applications that release dusts.
- Hand protection** Chemical resistant gloves (PVC)
- Eye protection** Approved safety goggles.
- Protective equipment** Wear chemical protective clothing.
- Protection for skin** Use clothing that provides complete protection to the skin.  
Available Exposure Limits (ACGIH) for substances of section 3: None.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Description</b>	Liquid.
<b>Color</b>	Pale yellow.
<b>Odor</b>	Ammoniacal.
<b>Flash point</b>	> 100 ° C (DIN 51758)
<b>Specific gravity ASTM D 1475:</b>	1,04 gr/ml (25°C)
<b>Dynamic viscosity</b>	30 - 80 mPa.s (25°C)

### 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Hazardous decomposition products</b>	It may generate toxic gases on contact with oxidising mineral acids, halogenated organic substances, organic peroxides and hydroperoxides, and powerful oxidising agents. Upon combustion CO, CO <sub>2</sub> , NH <sub>3</sub> , NO <sub>X</sub> and other nitrogen containing compounds are formed.



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## 11. TOXICOLOGICAL INFORMATION

No toxicological data related to the preparation are available.

When available, the information relating to the main components are listed below.

### Polyoxypropylendiamin

#### Acute toxicity

LD50 (oral): 2880 mg/kg (rat)  
LC50 (dermal): 2980 mg/kg (rabbit)

#### Chronic toxicity

Can cause dermatitis. Lung damage may be caused by repeated and prolonged exposure to the product.

#### Sensitization

Not sensitizing.

Irritating to skin (corrosive): Draize Method 6,40-8.00/8.0 (rabbit)

Irritating to eyes (irritant): Draize Method 80.00-110.00/110 (rabbit)

## 12. ECOLOGICAL INFORMATION

**General information** Adopt sound working practices, so that the product is not released into the environment. When available, the information relating to the main components are listed below.

Polyoxypropylendiamin

Leuciscus idus/CL50 (96h) > 220 mg/l

Not readily biodegradable.



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### 13. DISPOSAL CONSIDERATIONS

#### General information

Dispose of in compliance with all local and national regulations.


### 14. TRANSPORT INFORMATION

<b>ADR/RID</b>	<b>UN</b>	2735	Packing group II
	<b>Class</b>	8	Hazard ID 80
	<b>Proper Shipping Name</b>	POLYAMINES, LIQUID, CORROSIVE, N.O.S. [Benzendimethanamin]	
<b>IMDG</b>	<b>UN</b>	2735	Packing group II
	<b>Class</b>	8	Marine pollutant
	<b>EmS Code</b>	F-A S-B	
<b>IATA</b>	<b>UN</b>	2735	Packing group II
	<b>Maximum quantity (Passenger)</b>	5L	Packing Instruction (Passenger) 818
	<b>Maximum quantity (Cargo)</b>	60L	Class 8
	<b>Subsidiary Risk</b>		Packing Instruction (Cargo) 820



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### 15. REGULATORY INFORMATION

<b>Labeling</b>	The product is classified in accordance with 67/548/EEC.
<b>Symbols</b>	C - Corrosive 
<b>Risk phrases</b>	R20/21/22 - Harmful in contact with skin and if swallowed. R35 - Causes severe burns. R43 - May cause sensitisation by skin contact.
<b>Safety phrases</b>	R52/53 - Harmful 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. S28 - After contact with skin, wash immediately with plenty of soap and water. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).





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## 16. OTHER INFORMATION

### Text of risk phrases in Section 3.

R20/22 - Harmful by inhalation and if swallowed.  
R21 - Harmful in contact with skin and if swallowed.  
R34 - Causes burns.  
R35 - Causes severe burns.  
R43 - May cause sensitisation by skin contact.  
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Further information** The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

**Revision History** 19/07/11 – Combined epoxy resin and epoxy resin hardener MSDS datasheets into one file.