

**SECTION 1: Identification of the hazardous chemical and of the supplier**

Product name : Dri-Gard TZ 300GF Part B

Type of product : liquid

**Recommended use of the chemical and restrictions on use**

Product use : For professional users only., Epoxy coating

**Manufacturer or supplier's details**

Company : Dritech Chemicals Sdn. Bhd.  
A-13-02, Atria SOFO Suite, Jalan SS 22/23,  
47400, Petaling Jaya, Selangor, Malaysia.  
Telephone : +603 7499 2178  
Telefax : +603 8727 1786  
E-mail address : info@dritechchemicals.com  
Emergency telephone number : -  
Contact point :

**SECTION 2: Hazards identification**

**Classification of the hazardous chemical**

Skin corrosion/irritation : Category 1B

Serious eye damage/eye irritation : Category 1

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 2

Hazardous to the aquatic environment - chronic hazard : Category 2

**Label elements**

Hazard pictograms : 

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing



Precautionary statements	<p>difficulties if inhaled.                      H361f Suspected of damaging fertility.                      H411 Toxic to aquatic life with long lasting effects.</p> <p><b>: Prevention:</b>                      P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.                      P264 Wash skin thoroughly after handling.                      P273 Avoid release to the environment.                      P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.                      P281 Use personal protective equipment as required.                      P285 In case of inadequate ventilation wear respiratory protection.</p> <p><b>Response:</b>                      P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.                      P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.                      P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.                      P308 + P313 IF exposed or concerned: Get medical advice/ attention.                      P391 Collect spillage.</p>
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**Other hazards which do not result in classification**

None known.

**SECTION 3: Composition and information of the ingredients of the hazardous chemical**

Substance / Mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
4-tert-butylphenol	98-54-4	>= 10 - <25
m-phenylenebis(methylamine)	1477-55-0	>= 10 - <25
ethylenediamine	107-15-3	>= 1 - <3
trimethylhexane-1,6-diamine	25620-58-0	>= 2.5 - <3

**SECTION 4: First aid measures**

General advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	: Move to fresh air. Consult a physician after significant exposure.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.



	Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
In case of eye contact	: Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.
Most important symptoms and effects, both acute and delayed	: Health injuries may be delayed. corrosive effects sensitising effects Asthmatic appearance Allergic reactions Dermatitis See Section 11 for more detailed information on health effects and symptoms. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of damaging fertility. Causes severe burns.
Notes to physician	: Treat symptomatically.

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**SECTION 5: Firefighting measures**

**Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Physicochemical hazards arising from the chemical**

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

**Special protective equipment and precautions for fire-fighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing : Collect contaminated fire extinguishing water separately. This



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methods must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**SECTION 6: Accidental release measures**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Deny access to unprotected persons.

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

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**SECTION 7: Handling and storage**

**Handling**

**Precautions for safe handling**

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours or spray mist.  
Avoid exceeding the given occupational exposure limits (see section 8).  
Do not get in eyes, on skin, or on clothing.  
For personal protection see section 8.  
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Smoking, eating and drinking should be prohibited in the application area.  
Follow standard hygiene measures when handling chemical products

**Storage**

**Conditions for safe storage, including any incompatibilities**

Conditions for safe storage : Store in original container.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions.  
Store in accordance with local regulations.



**SECTION 8: Exposure controls and personal protection**

**Control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
m-phenylenebis(methylamine)	1477-55-0	CEIL	0.1 mg/m3	MY PEL
	Further information: Skin			
		C	0.1 mg/m3	ACGIH
ethylenediamine	107-15-3	TWA	10 ppm 25 mg/m3	MY PEL
	Further information: Skin			
		TWA	10 ppm	ACGIH

**Individual protection measures, such as personal protective equipment**

- Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
- Skin protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

**SECTION 9: Physical and chemical properties**

- Appearance : liquid
- Colour : various
- Odour : characteristic
- Odour Threshold : No data available

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pH	: No data available
Melting point/range / Freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: > 100 °C (> 212 °F) Method: closed cup
Evaporation rate	: No data available
Flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: 19.9983 hPa (15.000 mmHg)
Relative vapour density	: No data available
Density	: ca. 1.33 g/cm <sup>3</sup> (20 °C (68 °F) ( ))
Solubility(ies) Water solubility	: insoluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Molecular weight	: No data available

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### SECTION 10: Stability and reactivity

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: Stable under recommended storage conditions.
Conditions to avoid	: No data available



Incompatible materials : No data available

No decomposition if stored and applied as directed.

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**SECTION 11: Toxicological information**

Information on likely routes of exposure : None known.

**Acute toxicity**

Not classified based on available information.

**Components:**

**|| m-phenylenebis(methylamine):**

Acute oral toxicity : LD50 Oral (Rat): 930 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1.34 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rat): > 3,100 mg/kg

**|| ethylenediamine:**

Acute oral toxicity : LD50 Oral (Rat): 866 mg/kg

Acute inhalation toxicity : LC50 (Rat): 14.7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rat): 560 mg/kg

**Skin corrosion/irritation**

Causes severe burns.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation**

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Suspected of damaging fertility.

**STOT - single exposure**

Not classified based on available information.



**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

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**SECTION 12: Ecological information**

**Ecotoxicity**

**Components:**

**|| m-phenylenebis(methylamine):**

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 10 - 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l  
aquatic invertebrates Exposure time: 48 h

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

**Product:**

Additional ecological : An environmental hazard cannot be excluded in the event of  
information unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

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**SECTION 13: Disposal information**

**Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water  
courses or the soil.  
Do not contaminate ponds, waterways or ditches with  
chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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**SECTION 14: Transport information**

**International Regulations**



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### UNRTDG

UN number : UN 2735  
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.  
(3,6-diazaoctanethylenediamin)  
Class : 8  
Packing group : III  
Labels : 8

### IATA-DGR

UN/ID No. : UN 2735  
Proper shipping name : Amines, liquid, corrosive, n.o.s.  
(3,6-diazaoctanethylenediamin)  
Class : 8  
Packing group : III  
Labels : Corrosive  
Packing instruction (cargo aircraft) : 856  
Packing instruction (passenger aircraft) : 852

### IMDG-Code

UN number : UN 2735  
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.  
(3,6-diazaoctanethylenediamin)  
Class : 8  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

**Code** Not applicable for product as supplied.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## SECTION 15: Regulatory information

### Safety, health, and environmental regulations specific for the hazardous chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

International Chemical Weapons Convention (CWC) : Not applicable  
Schedules of Toxic Chemicals and Precursors

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## SECTION 16: Other information

Date format : dd.mm.yyyy

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The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.