SUPERBRITE BTM C125
ICI Pakistan Ltd.
5 WEST WHARF KARACHI
EMERGENCY TELEPHONE: 111-100-200

SECTION NUMBER AND HEADING

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY
2. COMPOSITION/ INFORMATION ON INGREDIENTS
3. HAZARDS IDENTIFICATION
4. FIRST AID MEASURES
5. FIRE FIGHTING MEASURES
6. ACCIDENTAL RELEASE MEASURES
7. STORAGE AND HANDLING
8. EXPOSURE CONTROLS/ PERSONAL PROTECTION
9. PHYSICAL/ CHEMICAL PROPERTIES
10. STABILITY AND REACTIVITY
11. TOXICOLOGICAL INFORMATION
12. ECOLOGICAL INFORMATION
13. DISPOSAL CONSIDERATIONS
14. TRANSPORT INFORMATION
15. REGULATORY INFORMATION
16. OTHER INFORMATION

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY

1.1 CHEMICAL PRODUCT SUPERBRITE BTM C125
1.2 APPLICATION OPTICAL BRIGHTENER
1.3 COMPANY IDENTIFICATION I.C.I Pakistan Ltd.
1.4 EMERGENCY TELEPHONE 111-100-200

2. COMPOSITION/ INFORMATION ON INGREDIENTS

2.1 CHEMICAL DESCRIPTION DIAMINO STILBENE DERIVATIVE, TETRA SULFO TYPE
2.2 CHEMICAL COMPOSITION OPTICAL BRIGHTENER POWDER.
2.3 DOES NOT CONTAIN ANY HAZARDOUS MATERIALS
### 2.4 InGredients.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>EINECS No</th>
<th>WT %</th>
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</thead>
<tbody>
<tr>
<td>TETRASODIUM 4, 4’-BIS [[4-[BIS(2-HYDROXY ETHYL) AMINO]-6-(4-SULPHONATOANILINO) -1,3,5-TRIAZIN-2-YL] AMINO][STILBENE-2,2’-DISULPHONATE]</td>
<td>16470-24-9</td>
<td>N.A</td>
<td>%20-%40</td>
</tr>
</tbody>
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### 3. HAZARDS IDENTIFICATION

PRODUCT DOES NOT HAVE ANY IDENTIFIED HAZARDS

### 4. FIRST AID MEASURES

4.1 **EYE CONTACT**

IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, SEEK MEDICAL ATTENTION IF IRRITATION OCCURS.

4.2 **SKIN CONTACT**

WASH WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING

4.3 **INGESTION**

WASH MOUTH AND THROAT WITH PLENTY OF WATER. SEEK MEDICAL ATTENTION.

4.4 **INHALATION**

REMOVE VICTIM TO FRESH AIR. SEEK MEDICAL ATTENTION IF NECESSARY.

4.5 **OTHER**

TREAT SYMPTOMATICALLY.

### 5. FIRE EXTINGUISHING MEDIA

5.1 **EXTINGUISHING MEDIA**

WATER, FOAM, CARBONDIOXIDE, AND DRY CHEMICAL POWDER TYPE EXTINGUISHERS ARE USED. USE PROTECTIVE GAS MASK IN CASE OF FUMING

5.2 **PROTECTIVE MEASURES**

NO SPECIAL PROTECTION REQUIRED.
6. **ACCIDENTAL RELEASE MEASURES**

6.1 PERSONAL PRECAUTIONS

USE PROTECTIVE EQUIPMENT.

6.2 ENVIRONMENTAL

NONE.

6.3 CLEANING UP

CONTAIN SPILL, SMALL SPILLS MAY BE FLUSHED TO THE SEWER OR ABSORBED ON SUITABLE ABSORBENTS. LARGER SPILLS SHOULD BE COLLECTED AS LIQUID OR ABSORBED. CLEAN-UP MAY BE ACCOMPLISHED BY FLUSHING WITH WATER IF APPROPRIATE OR REMOVE CONTAMINATED SOILS, PLACE IN APPROPRIATE CONTAINERS.

7. **STORAGE AND HANDLING**

7.1 STORAGE

STORE IN A COOL AND DRY PLACE IN CLOSED CONTAINERS. DO NOT STORE IN GALVANIZED METAL CONTAINERS. KEEP ABOVE 0°C. PROVIDE VENTILATION.

7.2 HANDLING

AVOID CONTACT WITH SKIN AND EYES

8. **EXPOSURE CONTROLS/ PERSONAL PROTECTION**

8.1 PERSONAL PROTECTION

RESPIRATORY PROTECTION

NONE REQUIRED IN NORMAL USE OF PRODUCT.

HAND PROTECTION

BUTYL RUBBER, PVC OR NEOPRENE GLOVES.

EYE PROTECTION

SAFETY GLASSES OF CHEMICAL SPLASH GOOGLES.

OTHER PROTECTIVE EQUIPMENT

RUBBER APRON

OTHER REQUIREMENTS

LOCAL VENTILATION RECOMMENDED.

8.2 VENTILATION:

USE LOCAL EXHAUST TO CONTROL TO RECOMMENDED.

9. **PHYSICAL/ CHEMICAL PROPERTIES**

9.1 APPEARANCE

YELLOW-BROWN COLOURED CLEAR LIQUID

9.2 ODOR

ODORLESS

9.3 PH

8-10
9.4 DENSITY 1.13G/ML
9.5 FREEZING POINT N.A
9.6 FREEZETHAWRECOVERY NOT ASSESSED
9.7 BOILING POINT 100 Deg C
9.8 MELTING POINT N.A
9.9 FLASH POINT N.A
9.10 AUTOFLAMMABILITY NOT APPLICABLE
9.11 EXPLOSIVE PROPERTIES NOT APPLICABLE
9.12 VAPOUR PRESSURE 23mbar
9.13 VAPOUR DENSITY NOT ASSESSED
9.14 RELATIVE DENSITY NOT ASSESSED
9.15 SOLUBILITY DISPERSIBLE IN WATER
9.16 PARTITION COEFFICIENT NOT ASSESSED
9.17 VISCOSITY 80 cps

10. STABILITY AND REACTIVITY
10.1 STABILITY STABLE
10.2 CONDITIONS TO AVOID AVOID HIGH PRESSURE WASHING
10.3 CHEMICALS TO AVOID STRONG OXIDIZING AGENTS
10.4 RECOMMENDED MATERIALS FOR EQUIPMENT COMPATIBLE WITH MOST MATERIALS
10.5 HAZARDOUS DEGRADATION PRODUCTS NONE IF USED NORMALLY. DEGRADATION PRODUCTS MAY CONTAIN NITROGEN, SULPHUR, CARBON OXIDES.

11. TOXICOLOGICAL INFORMATION
11.1 ACUTE ORAL TOXICITY LD50 (ORAL RAT) >15000 MG/KG
11.2 ACUTE DERMAL TOXICITY LD50 (DERMAL, RAT) >2000 MG/KG
SKIN IRRITATION     NON-IRRITATING
EYE IRRITATION     NON-IRRITATING

12. ECOLOGICAL INFORMATION

BIODEGRADATION : %90 (DOC REDUCTION) TEST METHOD : OECD 301 A

- COD : ~360 mg/g
- FISH (BRACHYDANIO RERIO) WITH A 96 H-LC0 > 1000 mg/l AND A 14 D-NOEC OF > 859 mg/l
- DAPHNIA (DAPHNIA MAGNA) WITH a 48 h-EC0 of >= 113 mg/l AND A 24 h-EC50 > 1000 mg/l
- ALGAE (SCENEDESMUS SUBSPICATUS) WITH a 96 h-EC50 > 1000 mg/l.

13. DISPOSAL CONSIDERATIONS

SMALL QUANTITIES MAY BE TREATED IN AEROBIC WASTEWATER TREATMENT SYSTEMS. LARGER QUANTITIES MAY BE INCINERATED OR LANDFILLED AFTER SOLIDIFICATION IN PERMITTED SYSTEMS.

14. TRANSPORT INFORMATION

14.1 PACKAGING

14.2 FREIGHT CLASSIFICATIONS     NOT APPLICABLE
UN NUMBER     NOT APPLICABLE
ADR NUMBER     NOT APPLICABLE
IMDG NUMBER     NOT APPLICABLE
PACKING GROUP     NOT APPLICABLE
TERM CARD     NOT APPLICABLE
TRANSPORT HAZARD     NOT CONSIDERED HAZARDOUS FOR TRANSPORT INFORMATION
15. REGULATORY INFORMATION

15.1 CLASSIFICATION

HAZARD SYMBOLS

R - PHRASES

S – PHRASES
S28 WASH WITH PLENTY OF WATER AND SOAP UPON CONTACT WITH SKIN.

16. OTHER INFORMATION

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