**BELZONA MOLECULAR -- MAGMA QUARTZ SOLIDIFIER, 3333-1002-04**

**MATERIAL SAFETY DATA SHEET**

**NSN:** 804000N015142  
**Manufacturer's CAGE:** 67020  
**Part No. Indicator:** A  
**Part Number/Trade Name:** MAGMA QUARTZ SOLIDIFIER, 3333/1002/04

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**General Information**

- **Company's Name:** BELZONA MOLECULAR INC  
- **Company's Street:** 100 CHARLES LINDBERGH BLVD  
- **Company's City:** UNIONDALE, LI  
- **Company's State:** NY  
- **Company's Country:** US  
- **Company's Zip Code:** 11553  
- **Company's Emerg Ph #:** 516-542-1000; 516-483-3100  
- **Company's Info Ph #:** 516-542-1000  
- **Record No. For Safety Entry:** 001  
- **Tot Safety Entries This Stk#:** 002  
- **Status:** KMJ  
- **Date MSDS Prepared:** 27DEC88  
- **Safety Data Review Date:** 01JUN95  
- **MSDS Serial Number:** BKPGW  
- **Hazard Characteristic Code:** T6

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**Ingredients/Identity Information**

<table>
<thead>
<tr>
<th>Proprietary: NO</th>
<th>Ingredient: M-XYLYLENE DIAMINE (M-XYLENE A, A'-DIAMINE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingredient Sequence Number: 01</td>
<td>NIOSH (RTECS) Number: PF8970000</td>
</tr>
<tr>
<td>CAS Number: 1477-55-0</td>
<td>OSHA PEL: S, C, 0.1 MG/M3</td>
</tr>
<tr>
<td>ACGIH TLV: S, C, 0.1 MG/M3; 9192</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Proprietary: NO</th>
<th>Ingredient: PHENOL, P-(TERT-BUTYL)-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingredient Sequence Number: 02</td>
<td>NIOSH (RTECS) Number: SJ8925000</td>
</tr>
<tr>
<td>CAS Number: 98-54-4</td>
<td>OSHA PEL: NOT APPLICABLE</td>
</tr>
<tr>
<td>ACGIH TLV: NOT APPLICABLE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Proprietary: NO</th>
<th>Ingredient: TRIMETHYLHEXAMETHYLENE DIAMINE. VP: 0.02 @ 20C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingredient Sequence Number: 03</td>
<td>NIOSH (RTECS) Number: 1006225TR</td>
</tr>
<tr>
<td>CAS Number: 3236-53-1</td>
<td>OSHA PEL: NOT APPLICABLE</td>
</tr>
<tr>
<td>ACGIH TLV: NOT APPLICABLE</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Proprietary: NO</th>
<th>Ingredient: PHENOL, P-NONYL-. VP: 0.80 @ 20C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingredient Sequence Number: 04</td>
<td>NIOSH (RTECS) Number: SM5630000</td>
</tr>
<tr>
<td>CAS Number: 104-40-5</td>
<td>OSHA PEL: NOT APPLICABLE</td>
</tr>
<tr>
<td>ACGIH TLV: NOT APPLICABLE</td>
<td></td>
</tr>
</tbody>
</table>

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**Physical/Chemical Characteristics**

- **Appearance And Odor:** CLEAR LIQUID WITH AMMONIAL ODOR.  
- **Specific Gravity:** 0.99
Solubility In Water: NEGLIGIBLE (<0.18)
Percent Volatiles By Volume: 0

Fire and Explosion Hazard Data

Flash Point: 230°F, 110°C
Flash Point Method: SCC
Extinguishing Media: WATER FOG (NOT A DIRECT STREAM OF WATER), FOAM, CO₂, DRY CHEMICAL.
Special Fire Fighting Proc: WEAR NIOSH/MSHA APPRV'D SCBA & FULL PROT EQUIP (FP N). FULL BUNKER GEAR SHOULD BE WORN IN EXTREME CASES. STAY UPWIND & AVOID SMOKE & FUMES. TREAT AS AN OIL FIRE.
Unusual Fire And Expl Hazards: DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE HAZARDOUS.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.
Materials To Avoid: STRONG OXIDIZING AGENTS, STRONG ACIDS, STRONG MINERAL ACIDS.
Hazardous Decomp Products: ACRID SMOKE, COₓ, NOₓ.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT.

Health Hazard Data

LD50-LC50 Mixture: LD50: ORL, RAT = 1620 MG/KG (P-NONYLPHENOL)
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: ACUTE: EXTREMELY IRRITATING TO SKIN AND EYES. LARGE OR REPEATED DOSES MAY CAUSE CHEMICAL ASTHMA. IRRITATES EYES AND RESPIRATORY TRACT.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT.
Signs/Effects Of Overexp: NONE SPECIFIED BY MANUFACTURER.
Med Cond Aggravated By Exp: DISEASES OF THE SKIN, SINUSES AND LUNGS.
Emergency/First Aid Proc: MOVE TO FRESH AIR AND GIVE ARTIFICIAL RESPIRATION IF NECESSARY. FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. IMMEDIATE FIRST AID IS NECESSARY TO PREVENT EYE DAMAGE. WASH SKIN WITH SOAP AND WATER. INGEST: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. CALL POISON CENTER AT 516-542-2323. REMOVE CONTAMINATED CLOTHING. CALL MD OR TAKE TO A HOSPITAL IMMEDIATELY.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: REMOVE ALL SOURCES OF IGNITION. USE SAND TO ABSORB SPILLED MATERIAL AND DISPOSE OF PROPERLY. LARGE SPILLS: REMOVE TO OUT OF DOORS. EVACUATE AREA.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: LABEL EMPTY CONTAINERS HAZARDOUS. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
Precautions-Handling/Storing: OVERHEATING MAY CAUSE CONTAINER TO RUPTURE. MUST BE KEPT IN DRY, COOL AND COVERED AREA. AVOID BREATHING VAPORS. DISCARD CONTAMINATED SHOES.
Other Precautions: CHECK ALL CONTAINERS FOR LEAKS. AVOID PROLONGED BREATHING OR CONTACT WITH SKIN.

Control Measures

7/29/97 11:01 AM
Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR SUITABLE FOR ORGANIC VAPORS IF NECESSARY.
Ventilation: PROVIDE ADEQUATE CROSS AIR CIRCULATION. EXHAUST AT POINT OF USE.
Protective Gloves: IMPERVIOUS GLOVES.
Eye Protection: CHEMICAL WORKERS GOGGLES. (SEE SUPP DATA)
Other Protective Equipment: EYE WASH STATION, EMERGENCY SHOWER, IMPERMEABLE APRON OR GARMENT TO MINIMIZE SKIN CONTACT.
Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.
Suppl. Safety & Health Data: NONE SPECIFIED BY MANUFACTURER.

Transportation Data

Trans Data Review Date: 91256
DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
API PSN Code: ZZZ
API Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
Additional Trans Data: NOT REGULATED FOR TRANSPORTATION

Disposal Data

Label Data

Label Required: YES
Technical Review Date: 01MAY91
Label Date: 30APR91
Label Status: G
Common Name: MAGMA QUARTZ SOLIDIFIER, 333/1002/04
Chronic Hazard: NO
Signal Word: WARNING!
Acute Health Hazard-Moderate: X
Contact Hazard-Moderate: X
Fire Hazard-Slight: X
Reactivity Hazard-None: X
Special Hazard Precautions: ACUTE: EXTREMELY IRRITATING TO SKIN AND EYES. LARGE OR REPEATED DOSES MAY CAUSE CHEMICAL ASTHMA. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING VAPOR. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: BELZONA MOLECULAR INC
Label Street: 100 CHARLES LINDBERGH BLVD
Label City: UNIONDALE, LI
Label State: NY
Label Zip Code: 11553
Label Country: US
Label Emergency Number: 516-542-1000; 516-483-3100

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