Material Safety Data Sheet – Gesswein Ultrasonic Cleaning Solution

Supplied by
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DATE PREPARED: 06/26/13
SUPERSEDES:

I. PRODUCT INFORMATION

PRODUCT TRADE NAME: Gesswein Ultrasonic Cleaning Solution
PRODUCT TYPE: Aqueous alkaline ultrasonic cleaner

II. HAZARDOUS INGREDIENT INFORMATION

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>% BY WEIGHT</th>
<th>EXPOSURE LIMIT</th>
<th>CAS REG. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethanolamine</td>
<td>&lt;20.0</td>
<td>ACGIH TLV = 5 mg/m3 TWA</td>
<td>102-71-6</td>
</tr>
</tbody>
</table>

III. PHYSICAL AND CHEMICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING POINT</td>
<td>215-220°F</td>
<td></td>
</tr>
<tr>
<td>SP. GRAVITY</td>
<td>1.065</td>
<td></td>
</tr>
<tr>
<td>VAPOR PRESSURE</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>% VOLATILE (including water)</td>
<td>&lt;70 (wt%)</td>
<td></td>
</tr>
<tr>
<td>EVAPORATION RATE (ETHER = 1)</td>
<td>Less than 1</td>
<td></td>
</tr>
<tr>
<td>Volatile Organic Compound (VOC) Content</td>
<td>Contains no VOCs</td>
<td></td>
</tr>
<tr>
<td>SOLUBILITY</td>
<td>COMPLETE</td>
<td></td>
</tr>
<tr>
<td>VAPOR DENSITY</td>
<td>ND</td>
<td></td>
</tr>
<tr>
<td>APPEARANCE/ODOR</td>
<td>Yellow liquid with slight odor</td>
<td></td>
</tr>
<tr>
<td>REACTIVITY IN WATER</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>FLASH POINT</td>
<td>NONE</td>
<td>AUTO IGNITION</td>
</tr>
<tr>
<td>pH (concentrate)</td>
<td>11.5</td>
<td>pH (5% solution): 10.0-10.5</td>
</tr>
</tbody>
</table>

SPECIAL FIRE FIGHTING PROCEDURES: No special requirements
UNUSUAL FIRE AND EXPLOSION HAZARDS: Not expected

IV. PHYSICAL HAZARDS

STABILITY: Stable
CONDITIONS TO AVOID: Avoid storage in extremes of temperature.
INCOMPATIBILITY: Avoid contact with acids, oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Not Determined.
HAZARDOUS POLYMERIZATION: Will not occur

V. HEALTH HAZARDS

THRESHOLD LIMIT VALUE: Not established for the mixture (See Section II for component TLV values)
POSSIBLE EXPOSURE HAZARDS: Eye and skin contact, ingestion.

HEALTH HAZARDS:
EYES: Contact with eyes may cause moderate to severe irritation and possible chemical burn.
SKIN: Contact with skin may cause moderate to severe irritation and possible burn, particularly with prolonged contact.
INGESTION: Ingestion may cause moderate to severe gastrointestinal distress accompanied by irritation and burns to mucous membranes of the mouth and esophagus.

CARCINOGEN/POTENTIAL CARCINOGEN: No

VI. FIRST AID PROCEDURES

EYES: Irrigate affected eye(s) with flowing water for 10 minutes, keeping the eyelids open. Seek prompt medical attention.
SKIN: Remove contaminated clothing and flush affected area with flowing water for ten minutes. If irritation persists, seek medical attention.
INGESTION: Drink several glasses of water. DO NOT induce vomiting. Seek prompt medical attention. Treat for ingestion of alkali, amine.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION/TYPE: Not required under prescribed use instructions.
VENTILATION/TYPE: General mechanical is adequate.
PROTECTIVE GLOVES: Approved gauntlet type gloves are recommended.
EYE/FACE PROTECTION: Approved face shield or protective goggles highly recommended.
OTHER PROTECTIVE CLOTHING/EQUIPMENT: Rubber or plastic apron, eyewash and safety shower should be provided in general work area for emergency use.

VIII. SPILL AND LEAK CONTROL PROCEDURES

PROCEDURE FOR SPILL OR RELEASE: Isolate spill and mop or absorb with absorbent material such as corncob or SPEEDE DRY (or other inert material). Transfer to a suitable container for subsequent disposal in accordance with federal, state and municipal regulations.

WASTE DISPOSAL METHOD: This compound and its’ solutions are alkaline and must be neutralized prior to discharge to a municipal treatment facility with prior approval. As regulations may vary, it is recommended that consultation with state/municipal authorities be made regarding specific regulations/restrictions.
IX. SPECIAL PRECAUTIONS

STORAGE/HANDLING PROCEDURES: Store in a cool, dry location away from acids and oxidizers.

OTHER PRECAUTIONS: Keep container closed when not in use. DO NOT mix with other chemicals. Read all applicable instructions for use, etc. before handling.

REGULATORY INFORMATION

DOT CLASSIFICATION: Not Classified

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UPDATE RECORD:

06/26/13  New