Safety Data Sheet

Effective date: May 19, 2011
Print date: February 10th, 2012

1. **CHEMICAL NAME AND COMPANY NAME**
   **CHEMICAL PRODUCT NAME** Three Bond 1401C
   Agent for Preventing Screw Loosening,
   Leaks & Rust

   **NAME OF MANUFACTURER** Three Bond Singapore Pte Ltd
   5 Joo Koon Crescent
   Singapore 629009

   AUSTRALIA BRANCH: 2/38 JELLICO DR, SCORESBY, VIC 3179
   PHONE NO: 03 9753 2522 FAX NO: 03 9753 2566
   AUSTRALIA MANAGER: WESLEY MALLETT
   AFTER HOURS CONTACT NO: 0417 350 027

2. **COMPOSITION/INFORMATION ON INGREDIENTS**
   **SUBSTANCE/MIXTURE** Mixture
   **COMPOSITION** Wt. %
   · Methyl alcohol     60 ~ 70
   · Modified vinyl acetate resin   25 ~ 35
   · Toluene, others       2 ~ 5
   Total                100

3. **HAZARDS IDENTIFICATION**
   **CLASSIFICATION**
   UN Classification Flammable Liquid (Class 3)
   UN Number 1133
   **PHYSICAL AND CHEMICAL HAZARDS**
   Flammable liquid. Acute toxic substance. Explosion hazard upon mixture with air.
   **ADVERSE HUMAN HEALTH EFFECTS**
   Affects central nervous system; causes headache, nausea, vomiting and dizziness.
   May lose consciousness. Blindness may occur.

4. **FIRST AID MEASURES**
   **EYE CONTACT**
   Flush eyes with water for at least 15 minutes. Then immediately consult eye physician.
   While flushing eye, pull back eyelid using fingers to expose eyeball to the water as much as possible.

   **SKIN CONTACT**
   Immediately remove contaminated clothes, shoes, etc. Wash off well with soap and water.

   **INHALATION**
   Remove to fresh air. Then in case of poisoning emergency, calm down victim, keep warm and seek medical treatment.

   **INGESTION**
   Rinse mouth well in water. Then, immediately seek medical treatment.

5. **FIRE FIGHTING MEASURES**
   **EXTINGUISHING MEDIA**
   Dry powder, carbon dioxide, foam and dry sand.

   **SPECIFIC HAZARDS WITH REGARD TO FIRE-FIGHTING MEASURES**
   No known hazards.

   **SPECIFIC METHODS/PROTECTION OF FIRE FIGHTERS**
   In case of a small fire, use dry powder, carbon dioxide gas, foam, etc. In case of a large fire, use foam extinguisher to remove air.
6. **ACCIDENTAL RELEASE MEASURES**
   In case of a small fire spill, absorb with dry sand, soil, sawdust, cloth, etc., then place in a sealable container. Wash remainder with plenty of water. In case of large spills, dike and prevent overflow. Guide to a safe place then dispose properly.

7. **HANDLING AND STORAGE**
   **HANDLING**
   Do not handle near fire, static electric, sparks or other sources of ignition.
   After handling, wash hands and face before taking breaks, using rest rooms, etc.
   **STORAGE**
   In addition the above, avoid direct sunlight and keep away from high temperature materials.

8. **EXPOSURE CONTROL/PERSONAL PROTECTION**
   **CONTROL PARAMETERS**
   |
   | PEL, Singapore (1997) |
   | Short Term | Long Term |
   |
   | Modified vinyl acetate | ppm | 15 | 10 |
   | Toluene | ppm | --- | 50 |
   | Methyl alcohol | ppm | 250 | 200 |

   **ENGINEERING MEASURES**
   When handling this product, use ventilation equipment if possible.

   **PERSONAL PROTECTION EQUIPMENT**
   **RESPIRATORY PROTECTION**
   Mask that prevents organic gas or mask.

   **EYE PROTECTION**
   Goggles or regular glasses with side shields.

   **HAND, SKIN AND BODY PROTECTION**
   Wear rubber, solvent resistant or other impervious gloves.
   Wear apron, boots, etc., as appropriate. Do not work with short sleeve shirt.

9. **PHYSICAL AND CHEMICAL PROPERTIES**
   **APPEARANCE, PHYSICAL STATE, FORM, COLOUR, ODOUR**
   Red transparent liquid
   **SPECIFIC GRAVITY**
   0.89
   **BOILING POINT**
   No data available at this time.
   **MELTING POINT**
   No data available at this time.
   **VAPOUR PRESSURE**
   No data available at this time.
   **SOLUBILITY IN WATER**
   Methanol is soluble in water.

10. **PHYSICAL HAZARD (STABILITY AND REACTIVITY)**
    **FLASHPOINT**
    9°C (closed cup)
    **AUTO IGNITION TEMPERATURE**
    Over 200°C
    **EXPLOSION LIMIT**
    1.3% (Toluene) ~ 35.6% (Methanol)
    **HAZARDOUS DECOMPOSITION PRODUCTS**
    Carbon monoxide, carbon dioxide

11. **TOXICOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD₅₀ mg/kg (Oral rat)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>5628</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>5000</td>
<td></td>
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</tbody>
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12. ECOLOGICAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>log POW (Octanol/Water Distribution Coefficient)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>-0.82, -0.66</td>
</tr>
<tr>
<td>Toluene</td>
<td>2.69</td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS
   Incinerate unhardened product. Bury hardened product.
   Handle in accordance with 7. Handling and Storage

14. TRANSPORT INFORMATION
   In addition to handling in accordance with 7. Handling and Storage, use same general precaution as flammable liquids. Take appropriate precaution against ignition.

15. REGULATORY INFORMATION
   Handle in accordance with applicable laws and regulations.

16. OTHER INFORMATION
   · Portions of the above evaluation of dangerous and harmful effects may be insufficient, please perform adequate investigation.
   · The content in this report is based on information, which was available as of the effective date, but Three Bond Singapore Pte Ltd and its affiliates are not responsible for guaranteeing the above data and evaluations. The above data assumes usage under normal working conditions. In case special handling is required, please handle with suitable safety measures according to the application and usage.
   · The content in this report may change due to new evaluation and tests, etc.