1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME RPA 500

Product number 5200300000-CT3B47

PRODUCT USE Aqueous Rust Inhibitor.

SUPPLIER Chemtool Incorporated
P.O.Box 538
8200 Ridgefield Road
Crystal Lake, IL 60039-0538
Tel: +01 (815) 459-1250
Fax: +01 (815) 459-1955

EMERGENCY TELEPHONE INFOTRAC
U.S. and Canada - (800) 535-5053
Outside the U.S. and Canada - +01-352-323-3500

Date of last issue 2009-06-08

2. COMPOSITION AND INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS No.</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER</td>
<td>7732-18-5</td>
<td>60-80 %</td>
</tr>
<tr>
<td>OCTANOIC ACID, COMPD. WITH 2,2’-2’’-NITRILOTRIS[ETHANOL] (1:1)</td>
<td>22919-56-8</td>
<td>10-20 %</td>
</tr>
<tr>
<td>*ETHANOL, 2-(DIETHYLAMINO)-</td>
<td>100-37-8</td>
<td>7-13 %</td>
</tr>
<tr>
<td>CARBOXYLIC ACIDS, DI-, C10-12, COMPDS. WITH TRIETHANOLAMINE</td>
<td>100084-94-4</td>
<td>7-13 %</td>
</tr>
</tbody>
</table>

* This chemical(s) is hazardous according to OSHA/WHIMIS criteria

COMPOSITION COMMENTS
Refer to section eight for exposure limits on ingredients.
Chemical ingredients not regulated by OSHA, SARA, state or federal agencies are treated confidentially.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HEALTH HAZARDS, GENERAL
Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
SENSITIZATION
No known information.

CARCINOGENICITY
IARC-2B listed substance(s): Glycine, N,N-bis(carboxymethyl)-, trisodium salt, CAS # 5064-31-3.

TERATOGENICITY
No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

HEALTH WARNINGS
INHALATION. Spray mist can irritate airways and lungs. SKIN CONTACT. Concentrate may cause irritation. EYE CONTACT. Irritating. INGESTION. Can cause stomach ache and vomiting.

ROUTE OF ENTRY
Skin and/or eye contact. Ingestion. Inhalation.

4. FIRST AID MEASURES

INHALATION
Remove victim immediately from source of exposure. Get medical attention if any discomfort continues. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration.

EYES
Important! Immediately rinse with water for at least 15 minutes. Get medical attention if any discomfort continues.

SKIN
Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

INGESTION
DO NOT INDUCE VOMITING! Drink large amounts of water. Get medical attention immediately! Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLASH POINT (°C) N/A
FLAMMABILITY LIMIT - LOWER(%) N/A
FLAMMABILITY LIMIT - UPPER(%) N/A

EXTINGUISHING MEDIA
Use: Foam. Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES
Use water spray to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures.

UNUSUAL FIRE & EXPLOSION HAZARDS
Pressure will increase in over heated, closed containers.

HAZARDOUS COMBUSTION PRODUCTS

PROTECTIVE MEASURES IN CASE OF FIRE
Self-contained breathing equipment and chemical resistant clothing recommended.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Minimize skin contact. Avoid breathing vapors. Wear an appropriate respirator if exposure exceeds recommended guidelines.
PRECAUTIONS TO PROTECT THE ENVIRONMENT

Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.

SPILL CLEAN-UP PROCEDURES

Contain spill. Neutralize and absorb small amounts. Collect and return large amounts to shipping container. Rinse spill area with water.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Do not reuse container. Keep lid closed when not in use. Do not store or mix with strong oxidizers. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Eye wash and emergency shower must be available at the work place.

STORAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Store separate from strong acids and oxidizers.

STORAGE CRITERIA

Chemical storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>STD</th>
<th>TWA</th>
<th>STEL</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHANOL, 2-(DIETHYLAMINO)-</td>
<td>OSHA</td>
<td>10 ppm</td>
<td>ACGIH</td>
<td>2 ppm</td>
<td></td>
</tr>
</tbody>
</table>

PROTECTIVE EQUIPMENT

ENGINEERING CONTROLS

Use engineering controls to reduce air contamination to permissible exposure level.

VENTILATION

No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

RESPIRATORS

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

PROTECTIVE GLOVES

Protective gloves should be used if there is a risk of direct contact or splash. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC. or latex.

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

PROTECTIVE CLOTHING

Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENIC WORK PRACTICES

Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES
**APPEARANCE/PHYSICAL STATE**
Clear. Liquid.

**COLOR**
Light (or pale).

**odor**
Mild (or faint).

**SOLUBILITY DESCRIPTION**
Soluble in water.

**boiling point (°C, range)**
~ 100 (212°F)

**MELT./FREEZ. POINT (°C, interval)**
0 (32°F)

**SPECIFIC GRAVITY**
1.03

**vapor density (air=1)**
> 1

**vapor pressure**
< 1.0 mmHg

**evaporation rate**
< 1

**pH-value, diluted solution**
8.5

**10. STABILITY AND REACTIVITY**

**STABILITY**
Normally stable.

**CONDITIONS TO AVOID**
Avoid contact with reactive metals which may produce flammable hydrogen air mixtures.
Avoid contact with acids and oxidizing substances.

**HAZARDOUS POLYMERIZATION**
Will not occur.

**POLYMERIZATION DESCRIPTION**
Not applicable

**HAZARDOUS DECOMPOSITION PRODUCTS**

**11. TOXICOLOGICAL INFORMATION**

**TOXICOLOGICAL INFORMATION**
No experimental toxicological data on the preparation as such is available.

**COMPONENT**
OCTANOIC ACID, COMPD. WITH 2,2',2''-NITRILOTRIS[ETHANOL] (1:1)

**COMPONENT**
ETHANOL, 2-(DIETHYLAMINO)-

**TOXIC DOSE - LD 50**
1300.00 mg/kg (oral rat)

**TOXIC CONC. - LC 50**
N/A.

**COMPONENT**
CARBOXYLIC ACIDS, DI-, C10-12, COMPD. WITH TRIETHANOLAMINE

**12. ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION**
There is no ecological data on the product itself.
13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS**
Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

**DOT HAZARD CLASS**
Not regulated.

**U.S. DOT HAZARD LABEL**
No DOT label requirement

**SEA TRANSPORT NOTES**
Not regulated per IMDG.

**AIR TRANSPORT NOTES**
Not regulated per IATA.

15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>US FEDERAL REGULATIONS</th>
<th>CA</th>
<th>MA</th>
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<th>MN</th>
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<tr>
<td>WATER</td>
<td>SARA 30: No</td>
<td>No</td>
<td>No</td>
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<td>No</td>
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<td>No</td>
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<tr>
<td>OCTANOIC ACID, COMPD. WITH 2,2',2''-NITRILOTRIS[ETHANOL] (1:1)</td>
<td>CERCLA No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>ETHANOL, 2-(DIETHYLAMINO)-</td>
<td>SARA 313 No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>CARBOXYLIC ACIDS, DI-, C10-12, COMPDS. WITH TRIETHANOLAMINE</td>
<td>CLEAN AIR ACT</td>
<td>CAA Accidental Release Prevention</td>
<td>No</td>
<td></td>
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</table>

<table>
<thead>
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<th>US STATE REGULATIONS</th>
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<tbody>
<tr>
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<tr>
<td>OCTANOIC ACID, COMPD. WITH 2,2',2''-NITRILOTRIS[ETHANOL] (1:1)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>CARBOXYLIC ACIDS, DI-, C10-12, COMPDS. WITH TRIETHANOLAMINE</td>
<td>CALIFORNIA PROPOSITION 65 CANCER HAZARD: This product contains the following chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer, and for which warnings are now required: Glycine, N,N-bis(carboxymethyl)-, trisodium salt, cancer hazard, CAS# 5064-31-3</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

LABEL(S) FOR SUPPLY

CONTROLLED PRODUCT CLASSIFICATION

D2A - Very Irritating and/or Very Chronically Toxic Materials
E - Corrosive Materials

Risk phrases

R-22 Harmful if swallowed.
R-36/37/38 Irritating to eyes, respiratory system and skin.
R-48 Danger of serious damage to health by prolonged exposure.

GLOBAL INVENTORIES

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAN</th>
<th>US</th>
<th>EU</th>
<th>AUS</th>
<th>JAP</th>
<th>KOR</th>
<th>PHLP</th>
<th>CHN</th>
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</thead>
<tbody>
<tr>
<td>WATER</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>OCTANOIC ACID, COMPD. WITH 2,2',2´'-NITRILOTRIS[ETHANOL] (1:1)</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>ETHANOL, 2-(DIETHYLAMINO)-</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>CARBOXYLIC ACIDS, DI-, C10-12, COMPD. WITH TRIETHANOLAMINE</td>
<td>DSL</td>
<td>Yes</td>
<td>EINECS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

USA (TSCA)

All components in this product are listed on the US Toxic Substances Control Act (TSCA) Inventory or are exempt from TSCA Inventory requirements.

CANADA (DSL)

All components in this product are listed on the Canada Domestic Substances List (DSL) or are exempt from DSL requirements.

EUROPE (EINECS/ELINCS/NLP)

All components in this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS), the European List of Notified Chemical Substances (ELINCS), or the No Longer Polymers (NLP) list, or are exempt from EU listing requirements.

JAPAN (ENCS)

This product contains one or more components that are NOT LISTED on the Japan Inventory of Existing and New Chemical Substances (ENCS) and are NOT EXEMPT from ENCS requirements.

PHILIPPINES (PICCS)

All components in this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or are exempt from PICCS requirements.

AUSTRALIA (AICS)

All components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt from AICS requirements.

KOREA (ECL)

All components in this product are listed on the Korea Existing Chemicals List (ECL) or are exempt from KECL requirements.

CHINA (IECS)

All components in this product are listed on the China Inventory of Existing Chemical Substances (IECS) or are exempt from IECS requirements.
16. OTHER INFORMATION

NFPA-HMIS HAZARD RATING

HEALTH
Irritation, minor residual injury (1) - HMIS/NFPA

FLAMMABILITY
Burns only if pre-heated (1) - HMIS/NFPA

REACTIVITY
Normally Stable (0) - HMIS/NFPA

NPCA HMIS HAZARD INDEX
Slight: Slightly Toxic - May cause slight irritation (1).

PERSONAL PROTECTION INDEX
B - Safety Eyewear and Gloves

NPCA HMIS FLAMMABILITY INDEX
Burns only if pre-heated (1).

NPCA HMIS REACTIVITY INDEX
Normally stable (0).

Tariff Code (Schedule B)
3811.90.0000 Other anti-corrosive preparations and prepared additives, for mineral oils.

REVISION COMMENTS
Section 16: HMIS

PREPARED BY
James P. McBriarty
Maria Maka
Bob Fox

Replacement of MSDS generated
2007-11-19

DATE
2009-06-08

DISCLAIMER
While the information and recommendations set forth herein are believed to be accurate as of the date thereof, the company makes no warranty with respect thereto and disclaims all liability from reliance therein.

* Information revised since previous MSDS version

PRINTING DATE:
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