1. IDENTIFICATION

**Product Identifier**

Product Name: Dry Coat RP, Dry Coat ST RP

**Other means of identification**

SDS #: APPAC-006

**Recommended use of the chemical and restrictions on use**

**Recommended Use**: Water based RP/Corrosion inhibiting solution for Ferrous Metals.

**Details of the supplier of the safety data sheet**

**Supplier Address**
Armor Protective Packaging
1551 North Burkhart Rd
Howell, MI 48855

**Emergency Telephone Number**

**Company Phone Number**
Phone: 1-517-546-1117  Fax: 1-517-546-6434

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2. HAZARDS IDENTIFICATION

**Appearance** Clear amber liquid

**Physical State** Liquid

**Odor** Bland

**Classification**

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Eye irritation</td>
<td>Category 2A</td>
</tr>
</tbody>
</table>

**Hazard Summary**: Irritating to eyes, may cause skin irritation, also harmful by inhalation and if swallowed

**Signal Word**

**Warning**

**Hazard Statements**

Causes skin irritation
Causes serious eye irritation
Potential Health Effects

Inhalation: yes
Skin: yes
Ingestion: yes
Aggravated Medical Condition: None Known

Carcinogenicity:

IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Precautionary Statements - Prevention
Wash hands and any exposed skin thoroughly after handling
Wear eye protection / wear protective gloves
Do not eat or drink when using this product
Avoid breathing fume/mist/vapors/spray
Use in a well-ventilated area

Precautionary Statements - Response
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a doctor/physician if symptoms continue
IF SWALLOWED: Rinse mouth and drink plenty of water, obtain medical attention
IF ON SKIN: Wash with plenty of soap and water
IF IN EYES: Rinse cautiously with water for several minutes / remove contact lenses if present and easy to remove / continue rinsing for a total of 15 minutes, seek medical advice.

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance / Mixture</th>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Di-ethyl amino ethanol</td>
<td>100-37-8</td>
<td>0 - 5</td>
</tr>
<tr>
<td></td>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>0 - 3</td>
</tr>
</tbody>
</table>


**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST-AID MEASURES

First Aid Measures

**Eye Contact**
Do not rub eyes. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

**Skin Contact**
IF ON SKIN: Wash with plenty of soap and water. If skin irritation persists, call a physician.

**Inhalation**
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call doctor/physician if symptoms continue.

**Ingestion**
IF SWALLOWED: Rinse mouth with water and drink plenty of water. Obtain medical attention.

Most important symptoms and effects

**Symptoms**
Harmful if inhaled. Harmful if swallowed. Direct contact may cause skin or eye irritation.

Indication of any immediate medical attention and special treatment needed

**Notes to Physician**
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Water spray (fog). Foam. Carbon dioxide (CO2). Dry chemical.
Further Information use water spray to cool unopened containers.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Personal Precautions: Use personal protective equipment as required / Insure adequate ventilation
- Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

- Methods for Containment: Prevent further leakage or spillage if safe to do so.
- Methods for Clean-Up: Absorb with inert material or sweep up, and then place in suitable container for chemical waste. Rinse area with clean water and dry before permitting traffic.

7. HANDLING AND STORAGE

Precautions for safe handling

- Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Avoid breathing vapors or mists. Use in a well-ventilated area. Wash hands and any exposed skin thoroughly after handling. Do not eat or drink when using this product.

Conditions for safe storage, including any incompatibilities

- Storage Conditions: Store away from incompatible materials. Avoid extreme temperatures. Store indoors in a cool well ventilated area only in original container.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Value type (form of exposure)</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Di-ethyl amino ethanol / 100-37-8</td>
<td>TWA</td>
<td>2 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>10 ppm</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>50.000000 mg/m³</td>
<td>OSHA Z – 1</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>10 ppm</td>
<td>OSHA PO</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>50.000000 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Triethanolamine / 102-71-6</td>
<td>TWA</td>
<td>50.000000 mg/m³</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>

Individual protection measures, such as personal protective equipment

Eye/Face Protection Use safety glasses with side shields or chemical splash goggles.

Skin and Body Protection Suitable protective clothing. Wear suitable gloves and apron. (butyl, nitrile, PVA are all suitable materials).

Respiratory Protection Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear suitable gloves, eye/face protection and protective clothing. Wash face, hands and any exposed skin thoroughly after handling. Provide adequate ventilation / do not inhale fumes. Keep away from food and drink.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear amber liquid</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Clear amber</td>
<td>Odor Bland</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>7.8 – 8.7</td>
<td></td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
Dry Coat RP

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Direct sources of heat

Incompatible Materials: Strong oxidizing agents, Strong acids, Nitrous acid.

Hazardous Decomposition Products: Carbon oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact  Avoid contact with eyes.

Skin Contact  Avoid contact with skin.

Inhalation  Harmful if inhaled.

Ingestion  Harmful if swallowed.
SAFETY DATA SHEET
Dry Coat RP

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Acute Oral LD50</th>
<th>Acute Dermal LD50</th>
<th>Acute Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Di-ethyl amino ethanol</td>
<td>= 1,300.000000 mg/kg (Rat)</td>
<td>= 1,280.000000 mg/kg (Rabbit)</td>
<td>= 5.000000 mg/kg (Mouse)</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>4,920.000000 mg/kg (Rat)</td>
<td>5,846.000000 mg/kg (Mouse)</td>
<td>16,000.000000 mg/kg (Rat)</td>
</tr>
<tr>
<td></td>
<td>2,200.000000 mg/kg (Rabbit)</td>
<td>20,000.000000 mg/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>Tolytriazol Sodium Salt</td>
<td>675.000000 mg/kg (Rat)</td>
<td>2,000.000000 mg/kg (Rabbit)</td>
<td>1.750000 mg/l (Rat)</td>
</tr>
<tr>
<td></td>
<td>640.000000 – 1,980.000000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

- Skin corrosion/irritation: no data available
- Serious eye damage / eye irritation: no data available
- Respiratory or skin sensitization: no data available
- Germ cell mutagenicity: no data available
- Carcinogenicity: no data available
- Reproductive toxicity: no data available
- STOT- single exposure: no data available
- STOT- repeated exposure: no data available
- Aspiration toxicity: no data available

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Bioaccumulation:

Product: Partition coefficient: n-octanol/water

remarks: no data available

Other Adverse Effects
Not determined
13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note
Transport in bulk per Annex II of Marpol 73/78 and the IBC Code
Not Applicable for product as supplied

IATA
Not Regulated

15. REGULATORY INFORMATION

TSCA Status: All components of this material comply with US TSCA requirements

OSHA Hazards: Toxic by inhalation, Harmful by ingestion, Harmful by skin absorption

WHMIS Classification: D2B Toxic material causing other toxic effects

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 311/312 Acute Health Hazard

SARA 302: SARA 302 No chemicals are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: SARA 313 this material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established By SARA Title III, Section 313.

US State Regulations

Massachusetts Right to Know: Di-ethyl amino ethanol 100-37-8
Triethanolamine 102-71-6

Pennsylvania Right to Know: Water 7732-18-5
Triethanolamine salts of dibasic acids 68188-87-4
Octanoic acid, triethanolamine salt 22919-56-8
Di-ethyl amino ethanol 100-37-8
Triethanolamine 102-71-6
SAFETY DATA SHEET
Dry Coat RP

New Jersey Right to Know:

Water 7732-18-5
Triethanolamine salts of dibasic acids 68188-87-4
Octanoic acid, triethanolamine salt 22919-56-8
Di-ethyl amino ethanol 100-37-8
Triethanolamine 102-71-6
Fatty acids, tallow, compounds with 61790-67-8
Triethanolamine


16. OTHER INFORMATION

Issue Date: 16-Dec-2014
Revision Date: 06-Feb-2020
Revision Note: Dry Coat ST addition

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet