SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sump Shine®

Substance number : REL_11387

Chemical usage : Cleaning Compound

Manufacturer or supplier’s details

Company : Chemetall US, Inc.

Address : 675 Central Avenue
           New Providence NJ 07974

Telephone : (800) 526-4473

Telefax : (908) 464-4658

Emergency telephone no : CHEMTREC - 800-424-9300, 1-703-527-3887 (International)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

<table>
<thead>
<tr>
<th>Appearance</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>amine-like</td>
</tr>
</tbody>
</table>

Hazard Summary

Harmful if swallowed.
Harmful by inhalation.
Irritating to eyes.
Irritating to skin.

GHS Classification

Skin irritation : Category 2

Eye irritation : Category 2A

GHS Label element

Hazard pictograms : !

Signal word : Warning

Hazard statements : Causes skin irritation.
                   Causes serious eye irritation.

Precautionary statements : Prevention:
Safety Data Sheet

Sump Shine®
Version 0.1 Revision Date 06/02/2015 Print Date 06/02/2015

Wash skin thoroughly after handling. Wear eye protection/ face protection. Wear protective gloves. **Response:** 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 do. Continue rinsing. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

**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.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance / Mixture:**

**Hazardous components**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipropylene glycol methyl ether</td>
<td>34590-94-8</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Trade Secret Registry</td>
<td>735517-5126P</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Trade Secret Registry</td>
<td>735517-5158P</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>141-43-5</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Trade Secret Registry</td>
<td>735517-5031P</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

Specific chemical identity of composition has been withheld as a trade secret.

Exact percentage of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

If inhaled: Remove person to fresh air. If signs/symptoms continue, get medical attention.

In case of skin contact: Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

In case of eye contact: Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. Seek medical advice.

If swallowed: Rinse mouth. Drink plenty of water. Obtain medical attention.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Dry chemical
Carbon dioxide (CO2)
Foam
Water spray

Further information: Use water spray to cool unopened containers.

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation.
Material can create slippery conditions.

Methods and materials for containment and cleaning up: Ventilate area.
Clean up with inert absorbant material.
Keep in suitable, closed containers for disposal.
Flush with plenty of water.

Additional advice: Never return spills in original containers for re-use.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling: Use only with adequate ventilation.
Conditions for safe storage: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store indoors in a cool, well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipropylene glycol methyl ether</td>
<td>34590-94-8</td>
<td>TWA</td>
<td>100 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>150 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>150 ppm 900.000000 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm 600.000000 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm 600.000000 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>150 ppm 900.000000 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>TWA</td>
<td>5.000000 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>141-43-5</td>
<td>TWA</td>
<td>3 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>6 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>3 ppm 8.000000 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>6 ppm 15.000000 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>3 ppm 6.000000 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>6 ppm 15.000000 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>3 ppm 8.000000 mg/m³</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection: If the occupational exposure limits cannot be met, suitable respirator equipment shall be worn.

Hand protection

Remarks: Impervious gloves
Eye protection: Chemical resistant goggles must be worn.

Skin and body protection: Rubber or plastic apron

Hygiene measures: Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Wear suitable protective clothing. Wash hands before breaks and immediately after handling the product. Provide adequate ventilation. Do not inhale fumes. Keep away from food and drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid

Colour: yellow

Odour: amine-like

pH: 10 - 11

Freezing point: -10.6 °C

Boiling point/boiling range: no data available

Flash point: > 93.4 °C

Evaporation rate: (Water =1) Less than 1

Upper explosion limit: Not applicable.

Lower explosion limit: Not applicable.

Vapour pressure: no data available

Relative density: 1.065

Bulk density: 8.89 lb/gal

Solubility(ies): completely soluble

Partition coefficient: n-octanol/water: no data available

Auto-ignition temperature: No data available

Thermal decomposition: No data available

Viscosity, dynamic: No data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid: Direct sources of heat. Freezing
Incompatible materials: Strong acids
Hazardous decomposition products: Nitrogen Oxides, Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:
- Acute oral toxicity: Acute toxicity estimate: > 5,000.000000 mg/kg
  Method: Calculation method
- Acute inhalation toxicity: Acute toxicity estimate: > 40.000000 mg/l
  Exposure time: 4 h
  Test atmosphere: vapour
  Method: Calculation method
- Acute dermal toxicity: Acute toxicity estimate: > 5,000.000000 mg/kg
  Method: Calculation method

Components:
- Dipropylene glycol methyl ether:
  - Acute oral toxicity: LD50 rat: 5,230.000000 mg/kg
  - Acute dermal toxicity: LD50 rabbit: 9,500.000000 mg/kg
- Trade Secret Registry:
  - Acute oral toxicity: LD50 rat: 1,500.000000 mg/kg
    LD50 rat: 1,000.000000 mg/kg
- Triethanolamine:
  - Acute oral toxicity: LD50 mouse: 5,846.000000 mg/kg
    LD50 rat: 2,200.000000 mg/kg
    LD50 rat: 4,920.000000 mg/kg
  - Acute inhalation toxicity: Target Organs: Respiratory Tract, Liver, Blood, Urinary system, Cardio-vascular system
  - Acute dermal toxicity: LD50 rat: > 16,000.000000 mg/kg
    LD50 rabbit: > 20,000.000000 mg/kg
Trade Secret Registry:
Acute oral toxicity: LD50 mouse: 2,150.000000 mg/kg
LD50 rat: 2,900.000000 mg/kg

Monoethanolamine:
Acute oral toxicity: LD50 rat: 1,720.000000 mg/kg
Acute inhalation toxicity: LC50 rat: 1.210000 mg/l
Exposure time: 4 h
Acute dermal toxicity: LD50 rabbit: 1,000.000000 mg/kg

Trade Secret Registry:
Acute oral toxicity: LD50 rat: 675.000000 - 1,830.000000
LD50 rat: 720.000000 mg/kg
Acute inhalation toxicity: LC50 rat: 1.730000 mg/l
Exposure time: 1 h
Acute dermal toxicity: LD50 rabbit: > 2,000.000000 mg/kg

Skin corrosion/irritation

Components:
Trade Secret Registry:
Result: Mild skin irritation

Serious eye damage/eye irritation

Components:
Trade Secret Registry:
Result: Eye irritation

Respiratory or skin sensitisation
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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
no data available

Bioaccumulative potential

**Product:**
Partition coefficient: n-octanol/water : Remarks: no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues : Refer to all federal, provincial, state and local regulation prior to disposition of container and unused contents by reuse, recycle or disposal.

SECTION 14. TRANSPORT INFORMATION

International regulation

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

SECTION 15. REGULATORY INFORMATION

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

OSHA Hazards : Harmful by ingestion., Toxic by skin absorption, Mild skin irritant, Moderate eye irritant

WHMIS Classification : D2B: Toxic Material Causing Other Toxic Effects

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

SARA 311/312 Hazards : Acute Health Hazard
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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

- Dipropylene glycol methyl ether: 34590-94-8
- Triethanolamine: 102-71-6
- Trade Secret Registry: 735517-5158P
- Monoethanolamine: 141-43-5

Pennsylvania Right To Know

- Water: 7732-18-5
- Dipropylene glycol methyl ether: 34590-94-8
- Trade Secret Registry: 735517-5126P
- EDTA, sodium salt: 64-02-8
- D-gluconic acid, compound with 2,2',2''-nitrilotris ethanol (1:1): 42728-79-0
- Triethanolamine: 102-71-6
- Trade Secret Registry: 735517-5158P
- Monoethanolamine: 141-43-5

New Jersey Right To Know

- Water: 7732-18-5
- Dipropylene glycol methyl ether: 34590-94-8
- Trade Secret Registry: 735517-5126P
- EDTA, sodium salt: 64-02-8
- D-gluconic acid, compound with 2,2',2''-nitrilotris ethanol (1:1): 42728-79-0
- Triethanolamine: 102-71-6
- Trade Secret Registry: 735517-5158P
- Monoethanolamine: 141-43-5
NFPA:

1. Flammability
2. Health
3. Instability
4. Special hazard.

HMIS III:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Splash Goggles, Gloves, Apron, Dust and Vapour Respirator

SECTION 16. OTHER INFORMATION

Further information

Version 1.0
Revision Date 06/02/2015

Chemetall US, Inc. warrants that the products described herein will conform with its published specifications.

The products supplied by Chemetall and information related to them are intended for use by buyers having necessary industrial skill and knowledge. Buyers should undertake sufficient verification and testing to determine the suitability of the Chemetall materials for their own particular purpose. Since buyer's conditions of use of products are beyond Chemetall's control, Chemetall does not warrant any recommendations and information for the use of such products. CHEMETALL DISCLAIMS ALL OTHER WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH THE USE OF ITS PRODUCTS.