SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier
- Product Form: Mixture
- Product Name: Top Guard
- Product Code: TG-6L

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Use of the substance/mixture: Floor Maintenance

1.3 Details of the supplier of the safety data sheet
- Top Guard Products
  1345 Seneca Avenue
  Bronx, NY 10474
  T (718) 638-5860

1.4 Emergency telephone number
- Emergency number: CHEM-TREC 1-800-424-9300

SECTION 2: Hazards Identification

NOTE: SDS Hazards and Warnings are based on the product concentrate. Refer to diluted SDS for Ready-to-use Hazards and Warnings.

2.1 Classification of the substance or mixture
- Classification (GHS-US): Skin Irrit. 2, H315
- Classification (GHS-US): Eye Irrit. 2B, H320
- Classification (GHS-US): Flam Liq. 4, H227

2.2 Label Elements
- GHS-US labeling:
  - Signal Word: WARNING
  - Hazard pictograms:
    - H315 - Causes skin irritation
    - H320 - Causes eye irritation
    - H227 - Combustible Liquid.
  - Hazard Statements:
    - H315+H320: Causes skin irritation. Causes eye irritation
    - H227: Combustible Liquid.
  - Precautionary statements:
    - P210 - Keep away from open flame and hot surfaces - no smoking.
    - P264 - Wash hands and forearms thoroughly after handling.
    - P280 - Wear Protective gloves/eye protection/face protection
    - P260 - Do not breathe dust/mist/spray
    - P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
    - P301+P330+P331: If swallowed: rinse mouth. DO NOT induce vomiting
    - P303+P361+P353: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
    - P304+P340: If inhaled: Remove person to fresh air and keep comfortable for breathing
    - P310: Immediately call a poison center/doctor.
    - P321: Specific treatment (see first aid measures on this label)
    - P363: Wash contaminated clothing before reuse.
    - P405: Store locked up.
    - P501: Dispose of contents/container in accordance with local/regional/national/international regulations

2.3 Other Hazards
- No additional information available

2.4 Unknown Acute Toxicity
- No Data Available

SECTION 3: Composition / Information on Ingredients

3.1 Substance
- Not Applicable

3.2 Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol</td>
<td>(CAS No.) 67-63-0</td>
<td>1 - 5</td>
<td>Flam Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>Pine oil</td>
<td>(CAS No.) 8002-09-3</td>
<td>5 - 10</td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>
SECTION 4: First Aid Measures

4.1 Description of First Aid measures

<table>
<thead>
<tr>
<th>First Aid measures general</th>
<th>Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show label where possible)</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Aid measures after inhalation</td>
<td>Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician</td>
</tr>
<tr>
<td>First Aid measures after skin contact</td>
<td>Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.</td>
</tr>
<tr>
<td>First Aid measures after eye contact</td>
<td>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.</td>
</tr>
<tr>
<td>First Aid measures after ingestion</td>
<td>Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.</td>
</tr>
</tbody>
</table>

4.2 Most important symptoms and effects, both acute and delayed

Symptoms / injuries : Prolonged skin contact may cause mild reversible skin irritation. May cause eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable extinguishing media</td>
<td>Do not use a heavy water stream</td>
</tr>
</tbody>
</table>

5.2 Special hazards arising from the substance or mixture

Reactivity : None known

5.3 Advice for firefighters

Firefighting Instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Emergency Procedures : Evacuate unnecessary personnel

6.1.2 For emergency responders

Protective Equipment : Equip cleanup crew with proper protection

Emergency Procedures : Ventilate area

6.2 Environmental precautions

At concentrations present, this product is not expected to present a significant hazard to the environment.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up. : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe dust/mist/spray. Avoid contact during pregnancy/while nursing

Hygiene measures : Wash hands and forearms thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use

Incompatible products : None known

Incompatible Materials : None known

7.3 Specific end use(s)

No additional information available
## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH TWA (ppm)</th>
<th>ACGIH STEL (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>Ceiling (mg/m3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium hydroxide (1310-58-3)</td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td></td>
</tr>
</tbody>
</table>

### 8.2 Exposure controls

- **Personal Protective Equipment**: Avoid unnecessary exposure
- **Hand Protection**: Protective gloves
- **Eye Protection**: Chemical goggles or face shield
- **Respiratory Protection**: Wear appropriate mask
- **Other Information**: Do not eat, drink or smoke during use.

#### 8.2.1 Engineering Controls
- Showers, Eyewash stations, Ventilation systems

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- **Physical state**: Liquid
- **Appearance**: Clear
- **Color**: Light Amber
- **Odor**: Slight
- **Odor threshold**: No data available
- **pH**: 8.5 - 9.5
- **Relative evaporation rate (butyl acetate=1)**: < 1
- **Melting Point**: No data available
- **Freezing Point**: No data available
- **Boiling Point**: ≥ 212°F
- **Auto-ignition temperature**: No data available
- **Decomposition temperature**: No data available
- **Flammability (solid, gas)**: No data available
- **Vapor Pressure**: No data available
- **Relative vapor density @ 20°C**: Equivalent to water
- **Relative density**: 1.03
- **Solubility in water**: Complete
- **Log Pow**: No data available
- **Log Kow**: No data available
- **Viscosity, kinematic**: No data available
- **Viscosity, dynamic**: No data available

### 9.2 Other Information

No additional information available.

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical Stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

Not expected under normal processing

### 10.4 Conditions to avoid

Direct sunlight, Extremely high or low temperatures.

### 10.5 Incompatible materials

None known

### 10.6 Hazardous decomposition products

None known
SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity: Not classified

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD₅₀ oral rat</th>
<th>LD₅₀ dermal rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td>5045 mg/kg</td>
<td>5000.00 mg/kg</td>
</tr>
<tr>
<td>Pine oil (8002-09-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD₅₀ oral rat</td>
<td>3200.00 mg/kg</td>
<td></td>
</tr>
<tr>
<td>LD₅₀ dermal rabbit</td>
<td>5000.00 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion / irritation: Not classified (pH 8.5-9.5)
Serious eye damage / irritation: Not classified (pH 8.5-9.5)
Respiratory sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

2-propanol (67-63-0)
IARC Group: 3 (Not classifiable)

Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

SECTION 12: Ecological Information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC₅₀ Daphnia 1</th>
<th>LC₅₀ fish 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td>10000 mg/l</td>
<td>4200 mg/l</td>
</tr>
<tr>
<td>Pine oil (8002-09-3)</td>
<td>2333 mg/l</td>
<td>9640 mg/l</td>
</tr>
</tbody>
</table>

Threshold limit algae 1: >1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
Threshold limit algae 2: 1800 mg/l (72 h; Algae; Cell numbers)

12.2 Persistence and degradability

Top Guard
Persistence and degradability: Not established

2-propanol (67-63-0)
Persistence and degradability: Readily biodegradable in water. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.

Biochemical oxygen demand (BOD): 1.19 g O₂/g substance
Chemical oxygen demand (COD): 2.23 g O₂/g substance
ThOD: 2.40 g O₂/g substance
BOD (% of ThOD): 0.49 % ThOD

potassium hydroxide (1310-58-3)
Persistence and degradability: Biodegradability: Not Established. No (test)data on mobility of the substance available.

Biochemical oxygen demand (BOD): Not Applicable
Chemical oxygen demand (COD): Not Applicable
ThOD: Not Applicable
BOD (% of ThOD): Not Applicable

12.3 Bioaccumulative potential

Top Guard
Bioaccumulative potential: Not established

2-propanol (67-63-0)
Log Pow: 0.05 (Experimental value)
Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4).
12.4 Mobility in Soil

| 2-propanol (67-63-0) | Surface Tension: 0.021 N/m (25 °C) |

12.5 Other adverse effects

- Effect on ozone layer: No additional information available
- Effect on the global warming: No known ecological damage caused by this product
- Other information: Avoid release to the environment

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

- Waste disposal recommendations: Dispose in a safe manner in accordance with local, state, and federal regulations.
- Ecology - Waste materials: Avoid release to the environment

SECTION 14: Transport Information

- In accordance with DOT
- Not regulated for transport

Additional Information

- Other Information: No supplementary information available
- ADR
  - Transport document description: 
  - Transport by sea: No additional information available
  - Air transport: No additional information available

SECTION 15: Regulatory Information

15.1 US Federal Regulations

- Secton 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains (a) chemical(s) which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>potassium hydroxide (1310-58-3)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40CFR 122.21 and 40 CFR 122.42)

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA (40 CFR 355)). There may be specific reporting requirements at the local, regional, or state level pertaining to the release of this material.

15.1 US State Regulations

- California Proposition 65: No Proposition 65 chemicals present
- US State Right-to-Know Regulations
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
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<td>X</td>
<td>X</td>
</tr>
<tr>
<td>potassium hydroxide (1310-58-3)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

15.2 International Regulations

CANADA: No additional information available

EU Regulations: No additional information available

15.2.2 National Regulations

No additional information available
SECTION 16: Other Information

Revision Date : 2/27/2015
Other Information : None

HMIS III Rating
Health : 1 Slight Hazard
Flammability : 0 Minimal Hazard
Physical : 0 Minimal Hazard
Personal Protection :

SDS US (GHS Hazcom 2012)

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The goal of defining precisely, in measurable terms, every possible health effect that may occur in the workplace as a result of chemical exposures cannot realistically be accomplished. The information and recommendations contained in this Safety Data Sheet are supplied according to Federal Register / Col. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations. The information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof. Twi-Laq Industries, Inc., however, makes no representations as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the same will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Twi-Laq Industries, Inc. be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance which is the subject matter of this Safety Data Sheet. The ultimate compliance with federal, state and local regulations concerning the use or disposal of this compound, or compliance with respect to products liability, rests solely upon the purchaser thereof.