TOP GUARD
Safety Data Sheet
according to Federal Register / Col. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision Date: 5/29/2015

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: TC-8L

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) 539-5960

1.4 Emergency telephone number
Emergency number: CHEMTREC 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
Eye Irrit. 2B, H320
Flam Liq. 4, H227

2.2 Label Elements
GHS-US labeling
Hazard pictograms (GHS-US)

Signal Word (GHS-US)
WARNING: H315+H319+H335 - Causes skin irritation. Causes eye irritation
H227 - Combustible Liquid.

Hazard Statements (GHS-US)
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
P230 - 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+P337+P31+P337/39 - If swallowed: rinse mouth. DO NOT induce vomiting.
P305+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/region/inal/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.) 57-55-6</td>
<td>1 - 5</td>
<td>Flam Liq. 2, H227</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, 2, H336</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
First Aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show label where possible)
First Aid measures after inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First Aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
First Aid measures after eye contact: 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.
First Aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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
Unsuitable extinguishing media: Do not use a heavy water stream.

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 uses(s)
No additional information available
TOP GUARD
Safety Data Sheet
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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>
<th>Remark (ACGIH)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
<th>OSHA PEL (TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol</td>
<td>200 ppm</td>
<td>200 ppm</td>
<td></td>
<td>880 mg/m³</td>
<td>400 ppm</td>
</tr>
<tr>
<td>Potassium hydroxide (1310-58-3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV (mg/m³)</td>
<td>2 mg/m³</td>
<td></td>
<td>OSHA PEL (mg/m³)</td>
<td>Ceiling: 2mg/m³</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (mg/m³)</td>
<td></td>
<td></td>
<td>NIOSH IDL (mg/m³)</td>
<td>Ceiling: 2mg/m³</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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Color</td>
<td>Light Amber</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>8.5 - 9.5</td>
</tr>
<tr>
<td>Relative evaporation rate</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>≥ 212°F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density @ 20°C</td>
<td>Equivalent to water</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.03</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Complete</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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>Compound</th>
<th>LD50/EC50 (mg/kg, oral/rat)</th>
<th>LD50/EC50 (mg/kg, dermal/rabbit)</th>
<th>LC50/EC50 (mg/l, inhalation rat)</th>
<th>ATE US (oral)</th>
<th>ATE US (dermal)</th>
<th>ATE US (vapors)</th>
<th>ATE US (dust, mist)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td>5045 mg/kg</td>
<td>12870 mg/kg</td>
<td>73 mg/l</td>
<td>5045.00 mg/kg</td>
<td>12870.00 mg/kg</td>
<td>73.00 mg/l</td>
<td>73.00 mg/l</td>
</tr>
<tr>
<td>Pine oil (8002-09-3)</td>
<td>3200.00 mg/kg</td>
<td>5000.00 mg/kg</td>
<td></td>
<td></td>
<td></td>
<td></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)

**Reproductive Toxicity:** Not classified

**Specific target organ toxicity (single exposure):** Not classified

**Specific target organ toxicity (repeated exposure):** Not classified

**Aspiration hazard:** Not classified

**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>Compound</th>
<th>LC50 EC50 (mg/l, fish, Daphnia)</th>
<th>EC50 Daphnia 1</th>
<th>EC50 Daphnia 2</th>
<th>Threshold limit algae 1</th>
<th>Threshold limit algae 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td>4200 mg/l (96 h, R. heteromorpha)</td>
<td>10000 mg/l</td>
<td>9640 mg/l</td>
<td>1000 mg/l 72 h S. subspicatus</td>
<td>1800 mg/l 72 h. S. subspicatus</td>
</tr>
</tbody>
</table>

#### 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.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemical oxygen demand (BOD)</td>
<td>1.18 g O2/g substance</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>2.23 g O2/g substance</td>
</tr>
<tr>
<td>ThOD</td>
<td>3.49 g O2/g substance</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
<td>0.49 % ThOD</td>
</tr>
</tbody>
</table>

**Potassium hydroxide (1310-58-3)**

- **Persistence and degradability:** Biodegradability: Not Established. No (test) data on mobility of substance available.

### 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

<table>
<thead>
<tr>
<th>Compound</th>
<th>2-propanol (67-63-0)</th>
<th>Nitrobenzene (108-95-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Tension</td>
<td>0.021 N/m (25°C)</td>
<td>347.9 m/s (25°C)</td>
</tr>
</tbody>
</table>

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: No additional information available
- Transport by sea
- Air transport: No additional information available

SECTION 15: Regulatory Information

15.1 US Federal Regulations

Section 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>Listed or Not Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td>Listed on United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>Nitrobenzene (108-95-2)</td>
<td>Listed on United States SARA Section 313</td>
</tr>
<tr>
<td>Pine oil (8002-09-3)</td>
<td>Listed on United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>Potassium hydroxide (1310-56-3)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td></td>
<td>Not listed on United States SARA Section 313</td>
</tr>
</tbody>
</table>

RQ (Reportable Quantity, section 394 of EPA's List of Lists): 5000 lbs

CWA (Clean Water Act)

- This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.25 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.

15.2 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision Date</td>
<td>2/27/2015</td>
</tr>
<tr>
<td>Other Information</td>
<td>None</td>
</tr>
<tr>
<td>HMIS III Rating Health</td>
<td>1 Slight Hazard</td>
</tr>
<tr>
<td>Flammability</td>
<td>0 Minimal Hazard</td>
</tr>
<tr>
<td>Physical</td>
<td>0 Minimal Hazard</td>
</tr>
<tr>
<td>Personal Protection</td>
<td></td>
</tr>
</tbody>
</table>

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 recommendation 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. Top Guard 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 Top Guard 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.