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

1.1 Product Identifier

Product Form: Mixture
Product Name: Top Guard Pro
Product Code: TGP-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

Twi-Laq Industries, Inc.
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 corrosion/irritation, category 2
- Serious eye damage/eye irritation, category 2

2.2 Label Elements

GHS-US labeling

Signal Word (GHS-US): WARNING
Hazard pictograms (GHS-US):

Hazard Statements (GHS-US):
- H316+H320 - Causes mild skin irritation. Causes eye irritation

Precautionary statements (GHS-US):
- 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+P338 - 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

Name | Product Identifier | % | Classification (GHS-US)
--- | --- | --- | ---
2-propanol | (CAS No.) 67-63-0 | 1 - 5 | Flm Liq; 2, H225
| | | | Eye Irrit. 2A, H319
| | | | STOT SE 3, 2, H336

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


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>USA ACGIH ACGIH TLV (mg/m3)</th>
<th>USA ACGIH ACGIH STEL (ppm)</th>
<th>USA OSHA OSHA PEL (TWA) (mg/m3)</th>
<th>USA OSHA OSHA PEL (TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH TWA (ppm)</td>
<td>200 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH STEL (ppm)</td>
<td>200 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>Remark (ACGIH)</td>
<td>Eye &amp; URT Irrit; CNS impair</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m3)</td>
<td>980 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>400 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>potassium hydroxide (1310-58-3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH TLV (mg/m3)</td>
<td>2 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (mg/m3)</td>
<td>Ceiling: 2mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>NIOSH IDLH (mg/m3)</td>
<td>Ceiling: 2mg/m3</td>
<td></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

<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 threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</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>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>5045 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 5840 mg/kg bodyweight: Rat)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>73 mg/l/4h (Rat)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>5045.00 mg/kg body weight</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>12870.00 mg/kg body weight</td>
</tr>
<tr>
<td>ATE US (vapors)</td>
<td>73.00 mg/l/4h</td>
</tr>
<tr>
<td>ATE US (dust, mist)</td>
<td>73.00 mg/l/4h</td>
</tr>
</tbody>
</table>
TOP GUARD PRO
Safety Data Sheet
according to Federal Register / Col. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>IARC Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td>3 (Not classifiable)</td>
</tr>
</tbody>
</table>

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 date, 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>EC50 Daphnia 2</th>
<th>LC50 fish 1</th>
<th>LC50 fish 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></td>
<td></td>
<td>4200 mg/l</td>
<td>9640 mg/l</td>
<td>&gt; 1000 mg/l (72 h)</td>
<td>1800 mg/l (72 h)</td>
</tr>
</tbody>
</table>

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

12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Biochemical oxygen demand (BOD)</th>
<th>Chemical oxygen demand (COD)</th>
<th>ThOD</th>
<th>BOD (% of ThOD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td>1.19 g O₂/g substance</td>
<td>2.23 g O₂/g substance</td>
<td>2.40</td>
<td>0.49 % ThOD</td>
</tr>
<tr>
<td>potassium hydroxide (1310-58-3)</td>
<td>Biodegradability: Not Established. No (test) data on mobility of the substance available.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biodegradability: Not Established. No (test) data on mobility of the substance available.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biodegradability: Not Established. No (test) data on mobility of the substance available.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biodegradability: Not Established. No (test) data on mobility of the substance available.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Guard Pro</td>
<td>Not established</td>
</tr>
</tbody>
</table>

12.4 Mobility in Soil

<table>
<thead>
<tr>
<th>Substance</th>
<th>Log Pow</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-propanol (67-63-0)</td>
<td>0.05 (Experimental value)</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</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 :
Transport by sea : No additional information available
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>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>
<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>

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)

NOTICE: NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE, ARE MADE WITH RESPECT TO INFORMATION CONCERNING THE PRODUCT REFERRED TO IN THIS MATERIAL SAFETY DATA SHEET.

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. 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.

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