1. Identification

1.1 Product Identifier: YellowGo

1.2 Recommended Use of the Chemical and Restrictions on Use: Textile dye remover for industrial/institutional use only. Do not use at home. Keep out of reach of children.

1.3 Details of the Supplier of the Safety Data Sheet:
A. L. Wilson Chemical Co., PO Box 207, Kearny, NJ 07032, USA
Telephone: 201-997-3300
E-mail: SDS@ALWilson.com

1.4 Emergency Telephone Number:
Chemtrec: 800-424-9300 or 703-527-3887

2. Hazards Identification

2.1 Classification of the Substance or Mixture:
Acute Toxicity – Category 3.
Skin and Eye Corrosion/Irritation – Category 1.

2.2 Label Elements:
Contains: 15-20% Titanyl Sulfate [13825-74-4], 20-30% Sulfuric Acid [7664-93-9], 1-10% Ammonium Bifluoride [1341-49-7], Citric Acid [77-92-6], Water [7732-18-5].

Hazard Pictograms:

Signal Word: Danger

Hazard Statements:
H301: Toxic if swallowed.
H314: Causes severe skin burns and eye damage.

Precautionary Statements:

Prevention:
P102: Keep out of reach of children.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:
P308+P313: If exposed or concerned: Get medical advice/attention.
P303+P361+P353+P363: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:
P234: Keep only in original container.
P405: Store locked up.

Disposal Considerations:
P501: Dispose of contents/container to hazardous or special waste collection point and in accordance to applicable regulations.

2.3 Other Hazards:
3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>30% ≤ C ≤ 70%</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>7664-93-9</td>
<td>20% ≤ C ≤ 30%</td>
</tr>
<tr>
<td>Titanyl Sulfate</td>
<td>13825-74-4</td>
<td>15% ≤ C ≤ 20%</td>
</tr>
<tr>
<td>Ammonium Bifluoride</td>
<td>1341-49-7</td>
<td>1% ≤ C ≤ 10%</td>
</tr>
<tr>
<td>Citric Acid</td>
<td>77-92-6</td>
<td>1% ≤ C ≤ 10%</td>
</tr>
</tbody>
</table>

4. First Aid Measures

4.1 Description of Necessary First Aid Measures:

General Information: If exposed or concerned: Get medical advice/attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact: Remove immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most Important Symptoms/Effects, both Acute and Delayed:

Eye Contact: Causes severe eye damage.
Skin Contact: Causes severe skin burns.

4.3 Indication of Immediate Medical Attention and Special Treatment Needed: See section 4.1.

5. Fire-fighting Measures

5.1 Suitable Extinguishing Media:

Suitable Extinguishing Media: Dry chemical.

Unsuitable Extinguishing Media: For safety reasons, do not use high pressure water jet or water stream.

5.2 Specific Hazards Arising from the Substance or Mixture: Hydrogen gas may be generated when acid comes in contact with metal.

5.3 Special Protective Action for Fire-fighters: Use appropriate Personal Protective Equipment when fighting chemical fires. Ensure all equipment (including Personal Protective Equipment) is compatible with all product components.

Additional Information: Use water spray to cool nearby containers exposed to fire.

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Cordon off spill area. Wear protective gloves/protective clothing/eye protection/face protection. Ensure all equipment (including Personal Protective Equipment) is compatible with all product components. Remove immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

6.2 Environmental Precautions: Avoid release to the environment. Dispose of contents/container to waste collection point and in accordance to applicable regulations.
6.3 Methods and Materials for Containment and Cleaning Up: Neutralize spills with soda ash or lime slurry. Never neutralize with a strong alkali material. Collect slurry waste and dispose to hazardous or special waste collection point and in accordance to applicable regulations.

7. Handling and Storage

7.1 Precautions for Safe Handling: Keep out of reach of children. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Ensure all equipment (including Personal Protective Equipment) is compatible with all product components.

7.2 Conditions for Safe Storage, Including any Incompatibles:

Storage Class: Acids
Store in original container only. Safely lock container in a cool and well ventilated place. Keep container sealed when not in use.

Packaging Material: Plastic. Do not reuse.

Unsuitable Packaging Material: Any glass or metal container.

8. Exposure Controls / Personal Protection

8.1 Control Parameters:

<table>
<thead>
<tr>
<th>Name</th>
<th>Air Concentration USA ACGIH TLV (ppm)</th>
<th>Air Concentration USA OSHA TWA (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric Acid</td>
<td>Data Not Available</td>
<td>1.0</td>
</tr>
<tr>
<td>Ammonium Bifluoride</td>
<td>Data Not Available</td>
<td>2.5</td>
</tr>
<tr>
<td>as Flourides “F”</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2 Exposure Controls:

Engineering Measures: Work in a well ventilated area or under a ventilation hood.

8.3 Individual Protection Measures, such as Personal Protective Equipment:

Eye Protection: Wear closed safety glasses or chemical splash goggles.

Skin Protection: Wear protective clothing.

Respiratory Protection: Above OELV of F and/or Sulfuric Acid wear approved mask for F or Sulfuric Acid.

Hand Protection: Wear protective gloves. Gloves must be inspected prior to use. Replace if worn or damaged. Do not reuse.

Hygiene Measures: Wash thoroughly after handling. Do not smoke, eat or drink in work area.

9. Physical and Chemical Properties

Appearance: Violet to Black Liquid.

Odor: Pungent Odor.

Odor Threshold: Not Determined.

pH: ≤ 1.0

Melting Point/Freezing Point (°C): Not Determined.

Initial Boiling Point/Boiling Point Range (°C): Not Determined.

Flash Point (°C): Not Applicable.

Evaporation Rate: Not Applicable
10. Stability and Reactivity

10.1 Reactivity: Reaction with metals can potentially release dangerous hydrogen gas.
10.2 Chemical Stability: Stable if used according to specifications.
10.3 Possibility of Hazardous Reactions: Not determined.
10.4 Conditions to Avoid: Avoid contact with strong alkalis, oxidizing compounds, metals.
10.5 Incompatible Materials: Strong alkalis and oxidizing compounds.
10.6 Hazardous Decomposition Products: In case of fire: Decomposition emits highly corrosive fluoride fumes.

11. Toxicological Information

Acute Toxicity: Data not available for mixture.

<table>
<thead>
<tr>
<th>Toxicological Information on Ingredients:</th>
<th>Acute Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Oral LD50 (Rat - mg/Kg)</td>
</tr>
<tr>
<td>Sulfuric Acid Solution 7664-93-9</td>
<td>155</td>
</tr>
<tr>
<td>Ammonium Bifluoride* 1341-49-7</td>
<td>32</td>
</tr>
<tr>
<td>*LD50 (Intraperitoneal - Rat)</td>
<td></td>
</tr>
</tbody>
</table>

Skin Corrosion/Irritation: Causes severe skin burns.

Serious Eye Damage/Eye Irritation: Causes severe eye damage.

Respiratory or Skin Sensitization: No information available.

Germ Cell Mutagenicity: No information available.

Carcinogenicity: Do not mist product, as strong inorganic acid mist containing Sulfuric Acid is listed by IARC, NTP as a Group 1 carcinogenic to humans (IARC-1).

Reproductive Toxicity: No information available.

Specific Target Organ Toxicity – Single Exposure: No information available.

Specific Target Organ Toxicity – Repeated Exposure: No information available.

Aspiration Hazard: No information available.

Inhalation: Inhalation of vapors may cause damage to lungs, respiratory system and pulmonary edema.
SAFETY DATA SHEET – YellowGo®

Subchronic/Chronic Toxicity: No information available.

12. Ecological Information

12.1 Ecotoxicity:

Aquatic Toxicity: Harmful to aquatic life with long lasting effects.

Ingredient: Sulfuric Acid: LC50 - Gambusia affinis (Mosquito fish) - 42 mg/l - 96 h.

12.2 Persistence and Degradability: Not applicable to inorganic substances or materials. The organic substance in this product is biodegradable.

12.3 Bioaccumulative Potential: There is no evidence to suggest bioaccumulation will occur.

12.4 Mobility in Soil: Not determined.

12.5 Results of PBT and vPvB Assessment: This product does not contain PBT or vPvB substances.

12.6 Other Adverse Effects: No Data Available.

13. Disposal Considerations

13.1 Disposal Methods:

Product (Any Residual Waste/Unused Product): Dispose of any residual product waste or unused product to hazardous or special waste collection point and in accordance to applicable regulations. Avoid release to the environment.

Packaging (Yellow Plastic): After use, close empty bottle, and dispose of to hazardous or special waste collection point and in accordance to applicable regulations.

14. Transport Information

14.1 UN-Number: UN2922

14.2 UN Proper Shipping Name: Corrosive Liquids, Toxic, N.O.S. (contains Titanium Sulfate Solution / Ammonium Hydrogen Difluoride Solution)

14.3 Transport hazard class(es): 8 (6.1)

14.4 Packing group: PG II

14.5 Environmental Hazard(s): Marine Pollutant: No

14.6 Special Precaution to User: See section 7.

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not Applicable.

15. Regulatory Information

15.1 Safety Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

U.S. Regulations:

Inventory Status: All components are on TSCA.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

SARA (311/312) HAZARD CATEGORIES: Acute/Chronic.

SARA 313: This product contains the following SARA 313 Toxic Release Chemicals.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
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<tr>
<td>Ammonium Bifluoride</td>
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</table>

16. Further Information

Abbreviations and Acronyms:
SAFETY DATA SHEET – YellowGo®

ACGIH = American Conference of Governmental Industrial Hygienists.
C = Concentration (weight percent).
DOT = Department of Transportation (United States).
IMDG = International Maritime Dangerous Goods Code.
IARC = International Agency for Research on Cancer.
OSHA = Occupational Safety & Health Administration.
PBT = Persistent, Bioaccumulative and Toxic Substances.
ppm = parts per million.
OELV = Occupational Exposure Limits Values.
TLV = Threshold Limit Values.
TSCA = Toxic Substance Control Act.
TWA = Time-Weighted Average.
vPvB = very Persistent and very Bioaccumulative Substances.

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