

# SAFETY DATA SHEET – YellowGo®

## 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 [13825-74-6], 20-30% Sulfuric Acid [7664-93-9], 1-10% Ammonium Bifluoride [1341-49-7], Citric Acid [77-92-9], 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.

P301+P310+P330+P331+P321: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

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:**

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Ensure all equipment (including Personal Protective Equipment) is compatible with all product components.  
See section 8 for exposure limits.

### 3. Composition/Information on Ingredients

Name	CAS No.	Concentration
Water	7732-18-5	$30\% \leq C \leq 70\%$
Sulfuric Acid	7664-93-9	$20\% \leq C \leq 30\%$
Titanyl Sulfate	13825-74-6	$15\% \leq C \leq 20\%$
Ammonium Bifluoride	1341-49-7	$1\% \leq C \leq 10\%$
Citric Acid	77-92-9	$1\% \leq C \leq 10\%$

### 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.

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**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:**

Exposure Limits Values

Name	Air Concentration USA ACGIH TLV (ppm)	Air Concentration USA OSHA TWA (mg/m <sup>3</sup> )
Sulfuric Acid	Data Not Available	1.0
Ammonium Bifluoride, as Fluorides "F"	Data Not Available	2.5

**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:**

Ensure all equipment (including Personal Protective Equipment) is compatible with all product components.

**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

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**Flammability (solid, gas):** Not Applicable.

**Upper/Lower Flammability or Explosive Limits:** Not Applicable.

**Vapor Pressure:** Not Determined.

**Vapor Density:** Not Determined.

**Relative Density (Water = 1):** 1.45 at 20°C.

**Solubility:** Soluble in Water.

**Partition Coefficient: n-Octanol/Water:** Not Applicable.

**Auto-ignition Temperature:** Not Applicable.

**Viscosity:** Not Determined.

**Explosive Properties:** Not Applicable.

**Oxidizing Properties:** 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.

Toxicological Information on Ingredients:		Acute Toxicity		
Name	CAS No.	Oral LD50 (Rat - mg/Kg)	Inhalation LC50 (Rat – ppm)	Dermal LD50 (Rabbit – mg/Kg)
Sulfuric Acid Solution	7664-93-9	155	4 hours – 255	Extremely corrosive and destructive to tissue
Ammonium Bifluoride*	1341-49-7	32	-	-

\*LD<sub>50</sub> (Intraperitoneal -Rat)

**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.

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**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.

Chemical Name	CAS Number	Concentration
Sulfuric Acid	7664-93-9	20% ≤ C ≤ 30%
Ammonium Bifluoride	1341-49-7	1% ≤ C ≤ 10%

## 16. Further Information

### Abbreviations and Acronyms:

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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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