

# TOUGH X

## Section 1: Identification

**Product Identifier:**

Tough X

**Other Means of Identification:**

221700

**Recommended Use of the Chemical:**

See label for recommended use

**Responsible Party:**

Solar Chemical  
3471 Atlanta Industrial Pkwy  
Atlanta, GA 30331 USA  
www.solarchemonline.com

**Emergency Phone Number:**

For chemical emergencies call Chemtrec at  
1.800.262.8200

## Section 2: Hazard Identification

**Classification of the Chemical:**

Eye Irritation, category 2a

**Signal Word:**

Warning

**Hazard Symbol:****Hazard Statement(s):**

Causes serious eye irritation

**Hazards Not Otherwise Classified:**

None known

0% of the mixture consists of ingredients of unknown toxicity

**Precautionary Statement(s):**

Wash hands thoroughly after handling  
Wear eye protection

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

**Note:**

Labeling information found on this SDS may be different from label. Safety Data Sheets are regulated by OSHA (29 CFR §1910.1200) while the actual product and its label may be regulated by a different government agency

## Section 3: Composition

Ingredient	CAS	wt%	GHS Classification(s)
Laruramine Oxide	61788-90-7	1-3	Eye Damage 1; Skin Irrit. 2
Sodium Hydroxide	1310-73-2	0.1-1	Skin Corr. 1;

**Trade Secret Claim**

When applicable, the specific concentration of each hazardous ingredient is considered a TRADE SECRET. Chemical names and identifiers will be listed in exact composition weight and name when not subject to trade secret exemptions

**Solar Chemical Company**  
3471 Atlanta Industrial Pkwy  
Atlanta, GA 30331 USA

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## Section 4: First Aid Measures

**General First Aid Measures:**

If medical attention is required then provide product label or safety data sheet to a medical professional

**Most Important Symptoms:**

Eye contact will cause irritation

**If Inhaled:**

Move person to fresh air and keep comfortable for breathing. Administer artificial respiration if person is not breathing

**If on Skin:**

Wash with soap and water. Take off contaminated clothing and launder with detergent before reuse

**Indication of Immediate Medical Attention:**

Not anticipated to require immediate medical attention

**If in Eyes:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so

**If Swallowed:**

Do NOT induce vomiting unless instructed to do so by a trained medical professional. Rinse mouth with water

## Section 5: Fire-Fighting Measures

**Suitable Extinguishing Media:**

Dry chemicals, foam, carbon dioxide

**Unsuitable Extinguishing Media:**

None known

**Specific Hazards Arising From the Chemical:**

None known

**Hazardous Combustion Products:**

Oxides of carbon and hydrocarbons

**Special Protective Equipment for Fire-fighters:**

Not determined

**Precautions for Fire-Fighters:**

Not determined

## Section 6: Accidental Release Measures

**Personal Precautions:**

Ensure that the environment is physically safe to be in. Wear personal protective equipment before remedying an accidental release of mixture

**Protective Equipment:**

Wear gloves suitable for chemical resistance. Wear protective eye glasses/goggles. In the event of inadequate air ventilation use artificial breathing apparatuses

**Emergency Procedures:**

Evacuate all non-essential personnel from the area. Ensure that all drains are covered to prevent environmental exposure. Follow methods found in next sub-section: Methods for Containment and Clean Up

**Methods for Containment and Clean Up:**

Provide mechanical ventilation. Soak up with an absorbing agent such as saw dust or sponges and sweep into a container

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## References:

See Section 7 on safe handling. Section 8 for information on personal protection equipment. See Section 13 for disposal information

## Section 7: Handling and Storage

### Precautions for Safe Handling:

Keep in original container before and after use. Read product label thoroughly and follow directions as provided in each label's Directions section. Wear protective equipment suggested in Section 8 even if product label does not recommend use of protective equipment

### Conditions for Safe Storage:

Store in all original containers/packaging as product label contains important information regarding proper use of chemical. Store appropriate to NFPA ratings found in Section 15 of this SDS

### Storage Incompatibilities:

None known

## Section 8: Personal Protection

### Exposure Limits

#### Ingredient

Laruramine Oxide  
Sodium Hydroxide

#### CAS

61788-90-7  
1310-73-2

#### PEL

n/a  
2 mg/m<sup>3</sup>

#### AGCIH

n/a  
2 mg/m<sup>3</sup>

#### NIOSH

n/a  
2 mg/m<sup>3</sup>

### General Note:

Practice good industrial hygiene by washing hands thoroughly before and after use. Keep working areas clean. Ensure proper use of personal protective equipment as recommended in this section

### Appropriate Engineering Controls:

Ensure adequate mechanical ventilation capable of preventing vapor build up

### Respiratory Protection

Mechanical ventilation is often sufficient for ensuring respiratory systems are better protected against exposure to material; however, should it be determined that material exposure limits are being concentrated as vapors then local ventilation should be utilized. Not anticipated to require personal breathing apparatuses for use or other respiratory protection equipment

### Eye Protection:

Eye glasses or goggles are required when using this product. Eye protection should fit user as to minimize risk of exposure as much as possible

### Skin Protection:

Wear long sleeves and pants to minimize exposure to skin. Wear protective gloves when using this product. Gloves should be chemically resistant to the material such as nitrile or vinyl. Launder contaminated clothing before reuse. Wear an apron if usage of chemical is anticipated to expose user to a large quantity of material

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## Section 9: Chemical Properties

<b>Appearance</b>	Pink liquid	<b>Upper Explosive %</b>	Not determined
<b>Odor</b>	Not determined	<b>Lower Explosive %</b>	Not determined
<b>Odor Threshold</b>	Not determined	<b>Vapor Density</b>	Not determined
<b>pH</b>	Not determined	<b>Relative Density</b>	Not determined
<b>Melting Point</b>	Not determined	<b>Solubility</b>	Fully miscible
<b>Boiling Point</b>	Not determined	<b>Partition Coefficient</b>	Not determined
<b>Flash Point</b>	Not determined	<b>Auto-Ignition Temp</b>	Not determined
<b>Evaporation Rate</b>	Not determined	<b>Decomposition Temp</b>	Not determined
<b>Flammability</b>	Not combustible	<b>Viscosity</b>	Not determined

## Section 10: Stability and Reactivity

### Reactivity:

Material is not anticipated to be reactive

### Chemical Stability:

Material is anticipated to be stable in normal storage conditions when not exposed to any incompatible materials

### Possibility of Hazardous Reactions:

None known

### Conditions to Avoid:

Ensure that chemical is not exposed to heat, direct sunlight, or sources of ignition

### Incompatible Materials:

Strong acids and oxidizers

### Hazardous Decomposition Products:

Not anticipated to produce any hazardous decomposition products beyond any health risk

## Section 11: Toxicological Information

### Acute Toxicity Estimates

**Oral:** Contains no ingredient(s) considered toxic

**Dermal:** Contains no ingredient(s) considered toxic

**Inhalation:** Contains no ingredient(s) considered toxic

**Aspiration Hazard:** Contains no ingredient(s) which poses a risk in this category

**Carcinogenicity:** Contains no ingredient(s) which poses a risk in this category

**Eye Damage/Irritation:** May cause eye irritation

**Germ Cell Mutagenicity:** Contains no ingredient(s) which poses a risk in this category

**Respiratory Sensitization :** Contains no ingredient(s) which poses a risk in this category

**Skin Corrosion/Irritation:** Contains no ingredient(s) which poses a risk in this category

**Skin Sensitization:** Contains no ingredient(s) which poses a risk in this category

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**Reproductive Toxicity:** Contains no ingredient(s) which poses a risk in this category

**International Agency for Research on Cancer Listing:** No ingredient(s) listed as possibly carcinogenic

**National Toxicology Program Listing:** No ingredient(s) listed as possibly carcinogenic

**Specific Target Organ Toxicity – Repeated Exposure:** Contains no ingredient(s) which poses a risk in this category

**Specific Target Organ Toxicity – Single Exposure:** Contains no ingredient(s) which poses a risk in this category

**Delayed and Immediate Effects From Short- and Long-Term Exposure:** Not determined

**Symptoms related to the Chemical Characteristics:** Not determined

## Section 12: Ecological Information

### Ecotoxicity Toxicity Estimates

**Algae:** Contains no ingredient(s) considered toxic

**Fish:** Contains no ingredient(s) considered toxic

**Crustacea:** Contains no ingredient(s) considered toxic

**Persistence and Degradability:**  
Not determined

**Mobility in Soil:**  
Not determined

**Bioaccumulative Potential:**  
Not determined

**Other Adverse Effects:**  
Not determined

## Section 13: Disposal Considerations

**Disposal of Empty Containers:**  
Empty container can be recycled

**Disposal of Material:**  
Dispose of full or partially full containers by offering material to a licensed waste management company and follow all local regulations on proper disposal of material

## Section 14: Transportation Information

**Hazard Placards:**  
Not regulated

**UN Number:** Not regulated

**UN Shipping Name:** Not regulated

**Technical Name(s):** -

**Hazard Class(es):** Not regulated

**Packaging group:** Not regulated

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<b>Limited Quantity:</b>	Not regulated
<b>Marine Pollutant:</b>	No
<b>Transport in Bulk:</b>	Not determined
<b>Special Precautions:</b>	Keep in original container. Do not store excessive weight on top

## Section 15: Regulatory Information

**SARA 311/312:** Sodium Hydroxide  
**SARA 313:** Not listed

### TSCA Inventory List

All ingredients in this mixture are on the TSCA inventory list as active or exempt.

**California Prop65:** No applicable ingredient(s)  
**ARB Designation:** General Purpose Cleaner  
**VOC Limit:** 0.5%

### HMIS®III: (higher numbers indicate higher risk)

**Health,** 2  
**Flammability,** 0  
**Physical Hazard,** 0

### NFPA®: (higher numbers indicate higher risk)

**Health,** 2  
**Flammability,** 0  
**Instability,** 0

## Section 16: Other Information

### Revision History

May 2022 SDS Creation

### General Disclaimer

All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publications of use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process

### SDS Authored By

Cogwork Consulting Group  
[www.cogworkconsulting.com](http://www.cogworkconsulting.com)