

# TECHNICAL DATA SHEET – LONG 'N STRONG™

PRODUCT: LONG 'N STRONG™ Reinforcing Compound



## DESCRIPTION:

Long 'N Strong™ Long Strand Fiberglass Filler is the super strong, long-strand reinforcing compound that restores and repairs with extra long strands of fiberglass for maximum bonding power and unparalleled strength. Ideal for use on large repairs like rusted-out metal, cracked or shattered fiberglass. Rustproof and waterproof.

## PART NUMBERS:

- |                                |                  |               |
|--------------------------------|------------------|---------------|
| • 23010 LONG 'N STRONG™ Gallon | 2 gallons / case | 25 lbs / case |
| • 23020 LONG 'N STRONG™ Quart  | 6 cans / case    | 19 lbs / case |

## PRODUCT USES:

Rust repairs, repair cracks and holes in fiberglass, use on weld areas and bond seams for automotive and marine.

## TYPICAL SUBSTRATES:

- Steel
- Aluminum
- Fiberglass
- Wood
- Masonry
- Concrete
- SMC – can be used for cosmetic repairs. For structural repairs prone to high degrees of stress and flexibility, use an SMC repair product.



## SURFACE PREPARATION:

For rotted-out metal, dents, cracks or holes:

1. Securely fasten, anchor or weld all parts or panels to be filled to prevent separation and cracking. Sand or grind damaged area to bare metal or through fiberglass gel coat (24 or 36 grit recommended).
2. Neutralize any flux remains and thoroughly clean surface of any dirt, oil, grease, wax, paint, rust, silicone or any other contaminants.
3. Dry the entire area completely with a clean, dry and lint-free cloth.

For broken fiberglass: Cut out all damaged fiberglass and “V” groove the sides to be repaired.

For large holes: Cut enough fiberglass cloth or screen to cover hole and extend well back into the side.

For small holes, cracks and dents: Fiberglass backing is not needed.



## MIXING:

**MIX**

For best results, bring filler and provided hardener to room temperature (minimum temperature 75°F). Before removing filler from container, thoroughly stir from bottom to top. Knead hardener tube. Place desired amount of filler on USC nonabsorbent plastic mixing board. To a golf ball size of filler, add 1½” ribbon of hardener or 2% by weight. Blend hardener and filler completely using a folding action and forcing air out. NOTE: The use of too much or too little hardener may cause pinholes, poor adhesion, soft cure or poor workability, etc.

**APPLICATION:**

For small holes, cracks and dents:

1. Apply only on properly prepared surfaces (see SURFACE PREPARATION). Before filling, the surface must be a minimum temperature of 75° F.
2. Coat one side of fiberglass cloth or screen generously with mixture and place over hole, wet side against repair. Flatten and smooth around edges using spreader to squeegee any air bubbles and to assure adhesion.
3. Gently press the center of cloth/screen to create a slight dip, leaving room for the next coat(s) of mixture. Allow ample time to cure (10-15 minutes).
4. Mix additional filler and apply to repaired area, building up to the original contour.
5. **IMPORTANT!** DO NOT RETURN UNUSED MIXTURE TO CAN AS IT WILL HARDEN THE REMAINING CONTENTS.

**FINISHING:**

When material has hardened (approximately 15-20 minutes), sand, then featheredge repaired area to desired contour.

**TOPCOATING:**

Topcoat LONG 'N STRONG™ with any USC quality lightweight body filler. Finish the repair with USC Icing®, PRO-GLAZE™ or Blaze Glaze™. Sand and featheredge topcoat to desired contour. Allow a minimum of sixty minutes before priming and painting.



**TECHNICAL INFORMATION:**

Appearance as Packaged:	Olive-drab
VOC	Packaged: 275 g/l
	Applied: 0.8 g/l
Weight Per Gallon (Density):	13.0 pounds (Average)
Maximum Recommended Thickness (sanded):	1/4"
Viscosity @ 77° F	Indeterminate due to high fiber content
Gel Time @ 77° F:	3.0 – 5.0 minutes
Shore "D" Hardness Values @ 24 hours:	55-60
Sanding Time @ 77° F:	15-20 minutes

**ASSOCIATED MSDS:** Filler: "Long N Strong-23009"

Hardener: "Cream Hardener"



**HEALTH & SAFETY:**

Read all warnings, first aid and safety for all components before using. Keep out of reach of children and animals. Protect hands with impervious rubber gloves. Wear face, skin and eye protection. When sanding, we recommend the use of a respiratory covering device to protect from dust (MSA mask P/N 459029 with MSA cartridge 464029 or equivalent). When using power equipment, refer to power tool manufacturer's recommendations for safety equipment. USC products are for industrial use by trained professionals only.



## SAFETY DATA SHEET

### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier**

**Product Code** 23010.G01

**Product Name** LONG N STRONG GAL

**Other means of identification**

No information available

**Recommended use of the chemical and restrictions on use**

Fillers and putty

**Details of the supplier of the safety data sheet**

*See section 16 for more information*

### Section 2: HAZARDS IDENTIFICATION

**Classification**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 1B
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1
Flammable liquids	Category 3

**Label elements**



Signal word

**DANGER**

#### HAZARD STATEMENTS

Flammable liquid and vapor  
Causes skin irritation  
Causes serious eye irritation  
May cause cancer  
Suspected of damaging fertility or the unborn child  
Causes damage to the following organs through prolonged or repeated exposure: Ears

#### PREVENTION

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wash face, hands and any exposed skin thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

#### RESPONSE

IF exposed or concerned: Get medical advice/attention.

##### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

##### Skin

If skin irritation occurs: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse.

##### Inhalation

IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

##### Ingestion

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

##### Fire

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction.

#### STORAGE

Store locked up. Store in a well-ventilated place. Keep cool.

#### DISPOSAL

Dispose of contents/containers in accordance with local regulations.

#### HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

No information available.

#### OTHER HAZARDS

Not applicable.

#### UNKNOWN ACUTE TOXICITY

0% of the mixture consists of ingredient(s) of unknown toxicity.

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	weight-%
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Styrene	100-42-5	10 - 25
N,N-Dimethylaniline	121-69-7	0.3 - 1

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## Section 4: FIRST AID MEASURES

### First Aid Measures

#### **General advice**

IF exposed or concerned: Get medical advice/attention.

#### **Eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### **Skin Contact**

If skin irritation occurs: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse.

#### **Inhalation**

IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

#### **Ingestion**

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

### Suitable extinguishing media

Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

Not to be used for safety reasons: Strong water jet

### Specific hazards arising from the chemical

Burning produces heavy smoke. Fire may produce irritating and/or toxic gases. In the event of fire and/or explosion do not breathe fumes.

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

## Section 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Avoid breathing vapors or mists. Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Take precautionary measures against static discharges.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform

appropriate authorities in accordance with local regulations.

### **Methods and material for containment and cleaning up**

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for cleaning up**

Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.

## **Section 7: HANDLING AND STORAGE**

### **Precautions for safe handling**

#### **Advice on safe handling**

Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Use personal protection recommended in Section 8. Never use pressure to empty container. Comply with the health and safety at work laws. Prevent product from entering drains. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

#### **General Hygiene Considerations**

Avoid contact with skin, eyes or clothing. When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

### **Conditions for safe storage, including any incompatibilities**

#### **Storage Conditions**

Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep tightly closed in a dry and cool place.

#### **Incompatible materials**

Strong oxidizing agents. Strong acids. Acids. Alkali.

## **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

#### **Exposure Limits**

If S\* appears in the OEL table, it indicates this chemical contains a skin notation.

<b>Chemical Name</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>NIOSH IDLH</b>
Styrene 100-42-5	STEL: 40 ppm TWA: 20 ppm	TWA: 100 ppm Ceiling: 200 ppm	IDLH: 700 ppm TWA: 50 ppm TWA: 215 mg/m <sup>3</sup> STEL: 100 ppm STEL: 425 mg/m <sup>3</sup>
N,N-Dimethylaniline 121-69-7	STEL: 10 ppm TWA: 5 ppm S*	TWA: 5 ppm TWA: 25 mg/m <sup>3</sup> S*	IDLH: 100 ppm TWA: 5 ppm TWA: 25 mg/m <sup>3</sup> STEL: 10 ppm STEL: 50 mg/m <sup>3</sup>

### **Appropriate engineering controls**

#### **Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

### **Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin and body protection**

Wear suitable protective clothing. Personnel should wear anti-static clothing made of natural fiber or of high temperature resistant synthetic fiber.

**Hand Protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical / chemical damage and poor maintenance. Wear protective gloves.

**Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Thermal Protection**

No information available

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical state</b>	Paste/Gel
<b>Appearance</b>	No information available
<b>Odor</b>	Aromatic
<b>Color</b>	brown
<b>Odor Threshold</b>	No information available
<b>pH value</b>	No information available
<b>Melting point/freezing point</b>	No information available
<b>Boiling point / boiling range</b>	No information available °C / °F
<b>flash point</b>	32 °C / 90 °F
<b>evaporation rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available
<b>Lower flammability limit:</b>	No information available
<b>Vapor Pressure</b>	No information available
<b>vapor density</b>	No information available
<b>Density (lbs per US gallon)</b>	13.58
<b>specific gravity</b>	1.63
<b>Solubility(ies)</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	10001 mm <sup>2</sup> per second
<b>Dynamic viscosity</b>	No information available

**Other information**

## Section 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous polymerization</b>	None under normal processing.
<b>Conditions to avoid</b>	Heat, flames and sparks.

**Incompatible materials** Strong oxidizing agents. Strong acids. Acids. Alkali.

**Hazardous Decomposition Products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons.

## Section 11: TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Eye contact**

Causes serious eye irritation

**Skin Contact**

Causes skin irritation

**Ingestion**

Not applicable

**Inhalation**

Not applicable

### Numerical measures of toxicity - Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Styrene 100-42-5	= 1000 mg/kg ( Rat )	-	= 11.7 mg/L ( Rat ) 4 h
N,N-Dimethylaniline 121-69-7	= 951 mg/kg ( Rat )	= 1770 µL/kg ( Rabbit )	> 0.5 - 5.0 mg/L ( Rat ) 4 h

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	30110 Mg/kg
ATEmix (dermal)	90329 Mg/kg
ATEmix (inhalation-dust/mist)	8.8 mg/l
ATEmix (inhalation-vapor)	63 mg/l

**UNKNOWN ACUTE TOXICITY** 0% of the mixture consists of ingredient(s) of unknown toxicity.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chemical Name	ACGIH	IARC	NTP	OSHA
Styrene 100-42-5		Group 2B	Reasonably Anticipated	X

*IARC (International Agency for Research on Cancer)*

*Group 2B - Possibly Carcinogenic to Humans.*

*NTP (National Toxicology Program)*

*Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen.*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*X - Present.*

**Skin corrosion/irritation** Causes skin irritation

**Serious eye damage/eye irritation** Causes serious eye irritation

**Skin sensitization** Not applicable

**Respiratory sensitization** Not applicable

**Germ cell mutagenicity** Not applicable

**Carcinogenicity** May cause cancer

**Reproductive Toxicity** Suspected of damaging fertility or the unborn child

**Specific target organ toxicity (single exposure)** Not applicable

**Specific target organ toxicity (repeated exposure)**

Causes damage to the following organs through prolonged or repeated exposure: Ears

**Aspiration hazard** Not applicable

## Section 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Environmental precautions

Prevent product from entering drains.



**Persistence and degradability**

No information available

**Bioaccumulation**

No information available

**Mobility**

No information available

**Other adverse effects**

No information available

**Section 13: DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Improper disposal or reuse of this container may be dangerous and illegal. Empty containers must be scrapped or reconditioned.

**Section 14: TRANSPORT INFORMATION**

	<b>DOT</b>	<b>IMDG</b>	<b>IATA</b>
<b>14.1 UN/ID no</b>	UN1866	UN1866	UN1866
<b>14.2 Proper shipping name</b>	Resin solution	Resin solution	Resin solution
<b>14.3 Hazard Class</b>	3	3	3
<b>14.4 Packing Group</b>	III	III	III
<b>14.5 Environmental hazard</b>			
<b>14.6 Special Provisions</b>	B1, B52, IB3, T2, TP1	223, 955	A3
	<b>Emergency Response Guide Number</b>	<b>EmS-No</b>	
	127	F-E, S-E	
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>			No information available

The supplier may apply one of the following exceptions: Combustible Liquid (49 CFR 173.150(f)); Consumer Commodity (49 CFR 173.150(c), ICAO/IATA SP A112); Limited Quantity (49 CFR 173.150(b), ICAO Part 3 Chapter 4, IATA 2.7, IMDG Chapter 3.4); Viscous Liquid (49 CFR 173.121(b), IMDG 2.3.2.2, IATA 3.3.3.1.1, ICAO 3.2.2, ADR 2.2.3.1.5); Does Not Sustain Combustion (49 CFR 173.120(a), IATA 3.3.1.3, ICAO 3.1.3, IMDG 2.3.1.3, ADR 2.2.3.1.1 Note 1); or others as allowed under hazardous materials/dangerous goods regulations.

**Section 15: REGULATORY INFORMATION****International Inventories****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

All components are listed or exempt from listing.

**DSL** - Canadian Domestic Substances List

All components are listed or exempt from listing.

**US Federal Regulations**

Chemical Name	SARA 313 - Threshold Values	Metals	Hazardous air pollutants (HAPs) content
Styrene 100-42-5 10 - 25	% 0.1		Present
Fiber Glass 65997-17-3 1 - 3	0.1	Manganese	
N,N-Dimethylaniline 121-69-7	1		Present

0.3 - 1			
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Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Styrene 100-42-5	1000 lb			X

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Styrene 100-42-5	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
N,N-Dimethylaniline 121-69-7	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

## US State Regulations

### **Rule 66 status of product**

Not photochemically reactive.

### **California Proposition 65**

WARNING: This product contains chemicals known to the State of California to cause cancer.

### **U.S. EPA Label information**

**EPA Pesticide registration number** Not applicable

### **U.S. State Right-to-Know Regulations**

Chemical Name
Proprietary Non-Hazardous Ingredient - Proprietary CAS
Proprietary Inert
Magnesium carbonate 546-93-0
Styrene 100-42-5
N,N-Dimethylaniline 121-69-7

## Section 16: OTHER INFORMATION

### **HMIS**

**Health hazards** 3\*

\* = Chronic Health Hazard

**Flammability** 3

**Physical hazards** 1

**Personal Protection** X

### **Disclaimer**

The information on this Safety Data Sheet (SDS) is based on the present state of our knowledge, current national legislation and guidelines. As the specific conditions of use of the product are outside the supplier's knowledge and control the user is responsible for ensuring that the requirements of relevant legislation are complied with. This SDS should not be construed as any guarantee of the technical performance or suitability for particular applications. **UNLESS SUPPLIER AGREES OTHERWISE IN WRITING, SUPPLIER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. SUPPLIER WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

**End of Safety Data Sheet**