

# Material Safety Data Sheet

<b>Name and Address:</b> Reliant Technologies, Inc. 2933 Hwy 1, North Port Allen, Louisiana 70767	<b>Product Name:</b> Safe-T-Guard	<b>Prepared by:</b> Barry Huggins	<b>Date:</b> 10/9/2003
--	--------------------------------------	--------------------------------------	---------------------------

<b>Emergency Phone:</b> 225-383-7923	<b>Product Code:</b> C-6776
---	--------------------------------

<b>HMIS CODE INFORMATION:</b>	<b>Health</b>	<b>Flammability</b>	<b>Reactivity</b>	<b>Personal Protection</b>
	1	1	0	B

## Section 1 - Hazardous Ingredients and Sara Title III Information

### Reportable Components:

Ingredient:	% wt	CAS #	OSHA PEL / STEL	ACGIH TLV
Sodium Nitrite	< 10	7632-00-0	none established	none established
Disodium Trioxosilicate	< 5	6834-92-0	none established	none established

### DOT Shipping Name:

Non-Regulated / Safe-T-Guard

RQ = 1500# (~ 150 gallons in a single container)

### Notes

N/A = Not Applicable

PEL = Personal Exposure Limit

STEL = Short Term Exposure Limit

TWA = Threshold Weighted Average

TLV = Threshold Limit Value

## Section 2 - Physical and Chemical Characteristics

<b>Boiling Point:</b>	> 212 F	<b>Vapor Density:</b>	Similar to that of water
<b>Evaporation Rate:</b>	~ 1 water = 1	<b>Solubility in Water:</b>	Complete
<b>Appearance and Odor:</b>	Red liquid, with mild odor	<b>Specific Gravity:</b>	~ 1.16
		<b>pH</b>	11.0 - 11.5

## Section 3 - Fire and Explosion Data

<b>Flash Point:</b>	None by any method	<b>Method Used:</b>	N/A
---------------------	--------------------	---------------------	-----

<b>Flammable Limits in Air, by Volume</b>	<b>Lower:</b> None Established
	<b>Upper:</b> None Established

**Extinguishing Media:** N/A: This product will not burn

**Special Firefighting Procedures:** Metal containers of this product in the proximity of a fire present a risk, if exposed to enough heat. Use water spray to keep cool any metal containers that are exposed to heat and fire

**Unusual Fire and Explosion Hazards:** This product will not burn. However, being water based, in the proximity of a fire, if exposed to enough heat, metal containers can explode when pressure is generated as the water turns to steam. NOx may evolve under flame. If product is allowed to dry, the residue will contain sodium nitrite, an oxidizing agent. Sodium nitrite will not burn, but can initiate the combustion of other materials

## Section 4 - Physical Hazards and Reactivity Data

**Stability:** Stable

**Conditions and Materials to Avoid:** Avoid acids, reducing agents, and organic materials. Under conditions of fire, extreme heat may cause the evolution of toxic gases or fumes, and oxides of nitrogen from product decomposition.

**Hazardous Decomposition Products:** None

**Hazardous Polymerization:** Will not occur

**Section 5 - Health Hazards Data****Signs and Symptoms of Exposure:**

<b>Eye and Skin Contact and Absorption:</b>	Skin: Irritation and dermatitis. May cause dryness of the skin. Eyes: Irritation and redness. Prolonged or repeated contact with liquid may result in eventual eye damage.
<b>Ingestion:</b>	Harmful if swallowed. There may be irritation to the gastro-intestinal tract, with nausea and vomiting. Components of the product create formation of methaemoglobin. Pregnant women are particularly sensitive to methemoglobinemia. May cause a decrease in blood pressure and cyanosis.
<b>Inhalation:</b>	Inhalation is not likely, but if it occurs, mists and liquid can cause irritation of lungs and airway.

**Medical Conditions Generally Aggravated by Exposure:**

<b>Skin and eye contact:</b>	dermatitis and skin problems; eye irritation
<b>Inhalation:</b>	respiratory disorders

**Carcinogen Information: These products contain no ingredients suspected of being carcinogens**

<b>IARC Monographs?</b>	No	<b>NTP?</b>	No	<b>OSHA?</b>	No
-------------------------	----	-------------	----	--------------	----

**Emergency and First Aid Procedures:**

<b>Eyes:</b>	Flush with large amounts of water for at least 15 minutes, lifting eyelids and moving the eyeball so that the entire eye surface is flushed with water. Get medical attention immediately
<b>Skin:</b>	Immediately wash affected area with large amounts of water, and remove contaminated clothing. If skin irritation develops, seek medical attention.
<b>Ingestion:</b>	If ingested, seek medical attention immediately, showing product label and/or MSDS to physician. Do not induce vomiting unless instructed by physician to do so. If conscious, washout mouth and give one glass of water to drink. <b>Make sure medical personnel are aware that this product contains sodium nitrite.</b>
<b>Inhalation:</b>	Remove to fresh air; give artificial resuscitation if not breathing. Call physician and seek medical attention immediately

**Section 6 - Precautions and Spill Procedures**

<b>Handling and Storage Precautions:</b>	Do not store this product in metal containers; store only in plastic containers. Avoid contact with skin and eyes. Never take internally. Avoid generating aerosols and mists. Keep away from children. Keep away from excessive heat. Do not store this product near food. Store in a dry area, and keep from freezing. If the product freezes, once it is thawed, it may be necessary to re-mix it, so that it returns to a homogenous mixture. For work on tanks which have been used to store this product, refer to OSHA regulation, ANSI Z 49.1, and / or other governmental and industrial references pertaining to cleaning, gas freeing, repairing, welding, or other contemplated operations where confined space entry may be required. Do not store this product near acids, organic materials, or reducing agents.
<b>Steps to be taken if material is Released or Spilled:</b>	Contain and absorb all spills with INERT absorbant. Once absorbant has been collected, rinse area with water. Do not use rags, cotton waste, saw dust, or any combustible material. Do not allow this product to enter waterways.
<b>Waste Disposal Method:</b>	Always dispose in accordance with all applicable Federal, State, and Local regulations

**Section 7 - Special Protection Information and Control Measures**

<b>Respiratory Protection:</b>	If significant mists or aerosols are present, use an approved respirator with a type AP filter.
<b>Ventilation:</b>	Use local exhaust to capture vapor, mists, or fumes if necessary. Provide ventilation sufficient to maintain an atmosphere equal to outside ambient air. Prevent smoking in the proximity of this product.
<b>Eye Protection:</b>	Use chemical splash goggles when eye contact may occur
<b>Protective Gloves:</b>	PVC, nitrile rubber, or neoprene
<b>Work and Hygienic Practices:</b>	Wash hands before eating or using the bathroom. Keep an eyewash fountain and safety shower available. If clothing is contaminated, remove and launder before re-use.
<b>Other protective equipment:</b>	Rubber boots and splash apron when deemed necessary

**Disclaimer:**

*This safety information is provided to assist customers in assessing measures necessary for compliance with health, safety, and environmental regulations. Individuals handling this product should be informed of the recommended safety precautions, and should have access to this information. The information contained herein is based on available data, and is believed to be accurate. No guarantee or warranty is provided, since the use of this product is within the exclusive control of the user, and it is the user's responsibility to satisfy itself that this information is suitable and complete for its particular use. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product.*