

Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name

Company Name:

Date:

Super Bright 5000
Aluminum Brightener and Stainless Steel
Cleaner

Reliant Technologies, Inc.
2933 Hwy 1 North
Port Allen, Louisiana 70767

Revised
5/12/2015

Emergency Phone Number:

Information Phone Number

FAX Number

CHEMTREC 800-424-9300

225-383-7923

225-383-7961

Section 2 - Hazards Identification

GHS Signal Word:
DANGER



HMIS CODE INFORMATION:

Health

Flammability

Reactivity / Instability

Personal Protection (PPE)

NFPA HAZARD ID

3

0

1 (Instability)

HMIS HAZARD ID

3

0

N/D (Reactivity)

D

THIS MATERIAL IS A CLEAR LIQUID WITH A SLIGHTLY PUNGENT ODOR.

GHS CLASSIFICATIONS:

Health, Acute Toxicity, Oral, Category 4
Health, Acute Toxicity, Dermal, Category 4
Health, Acute Toxicity, Inhalation (Mists), Category 2
Health, Serious Eye Damage / Eye Irritation, Category 1
Health, Skin Corrosion / Damage, Category 3

GHS HAZARD PHRASES:

Toxic if Swallowed
Can Cause Severe Skin Burns and Eye Damage
Inhalation of Mists Can Irritate and / or Burn Respiratory System

GHS PRECAUTION PHRASES:

Keep Out of Reach of Children
Do Not Eat, Drink, or Smoke When Using This Product
Wash Hands thoroughly After Handling
Wear Protective Gloves, Protective Clothing, Eye Protection, Face Protection, and all required PPE

GHS RESPONSE PHRASES:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention
If swallowed: Rinse mouth. Do NOT induce vomiting. Call a POISON CONTROL CENTER or physician IMMEDIATELY
If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing
If on skin (or in hair): Wash with plenty of soap and water. If skin irritation occurs, get medical attention immediately

GHS STORAGE AND

Store in a locked, secure area. Store in a cool dry place at room temperature away from direct sunlight.

DISPOSAL PHRASES:

Dispose of any unused product and empty containers in accordance with all local, state, and federal regulations.

POTENTIAL HEALTH EFFECTS: (ACUTE and CHRONIC)

Inhalation: Causes chemical burns and irritation to the respiratory tract
Skin Contact: Causes skin burns. Contact with liquid is corrosive and can cause severe burns and ulceration. In extreme cases, exposure can result in the product penetrating the skin and causing severe tissue and bone destruction.
Eye Contact: Causes eye burns. May cause chemical conjunctivitis and corneal damage.
Ingestion: May be fatal if swallowed and enters airways. Causes gastrointestinal tract burns. May cause severe and permanent damage to the digestive tract.

Section 3 - Composition and Information on Ingredients

This material is defined as a mixture.

Hazardous Components	CAS #	% by Weight	GHS Codes
Hydrofluoric Acid	7664-39-3	< 45%	H301, H304, H312, H314, H315, H318, H332, H335
Sulfuric Acid	7664-93-9	< 45%	H301, H304, H312, H314, H315, H318, H332, H335

Section 4 - First Aid Measures

FIRST AID	INHALATION:	Get medical attention immediately. Remove from exposure and move to fresh air immediately. Give oxygen if breathing is difficult. Do NOT use mouth-to-mouth resuscitation.
	SKIN CONTACT:	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use. Destroy contaminated shoes.
	EYE CONTACT:	Flush eyes with plenty of water for at least 30 minutes, occasionally lifting the upper and lower eyelids. Get medical attention IMMEDIATELY. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required.
	INGESTION:	Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person.
	NOTE TO PHYSICIAN:	Treat symptomatically and supportively

Section 5 - Fire Fighting Measures

FLASH POINT:	NONE	METHOD:	N/A				
FLAMABLE LIMITS (APPROXIMATE VOLUME % IN AIR):		LEL	N/A	UEL	N/A		N/A
FIRE EXTINGUISHING MEDIA:	NONE NEEDED - WILL NOT BURN						
FIRE FIGHTING INSTRUCTIONS:	Use water spray to keep fire-exposed containers cool. Store only in plastic containers to avoid container becoming pressurized and exploding from exposure to heat creating steam inside the container.						
HAZARDOUS COMBUSTION PRODUCTS:	None, but heat can cause the release of sulfur oxides and various fluoride gases.						

Section 6 - Accidental Release Measures

NOTIFICATION PROCEDURES:	In the event of a spill or accidental release, notify appropriate authorities in accordance with all local, state, and federal regulations.
PROTECTIVE MEASURES:	Use proper personal protective equipment as indicated in Section 8
SPILL MANAGEMENT:	Stop leak if this can be done without risk. Recover spill using pump, vacuum, or absorbant Vacuum or absorb and sweep up material and place into a suitable disposal container. Avoid allowing a spill to be introduced into the environment. Avoid run-off into storm sewers and ditches that lead to waterways. Clean up spills immediately. Assure adequate ventilation.
ENVIRONMENTAL PRECAUTIONS:	For large spills, dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways buildings, and confined areas.

Section 7 - Handling and Storage

HANDLING:	Do not breathe vapor, mist, or liquid. Do not get into eyes, on skin, or on clothing. Do not ingest or inhale. Wash thoroughly after handling. Keep container tightly closed when not in use. Destroy contaminated shoes. Use only with adequate ventilation.
	THIS PRODUCT SHOULD ONLY BE USED AND HANDLED BY TRAINED PERSONNEL
STORAGE:	Store in a tightly closed container when not in use. Store in a cool, dry, well ventilated area away from incompatible substances, such as strong alkalis Do not store in a glass container

Section 8 - Exposure Controls / Personal Protection

EXPOSURE GUIDELINES		<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>
	Hydrofluoric Acid	TWA: 0.5 ppm (as F) TWA: 2.5 mg/m3 (as F) Ceiling: 2 ppm (as F)	TWA: 3 ppm (as F) TWA 2.5 mg/m3 (as F) STEL 6 ppm (as F)	IDLH: 30 ppm; Ceiling 6 ppm 15 min Ceiling 5 mg/m3 15 min TWA: 3 ppm; 2.5 mg/m3
	Sulfuric Acid	TWA: 0.2 mg/m3 thoracic fraction	TWA 1 mg/m3	TWA: 1 mg/m3 IDLH: 15 mg/m3
ENGINEERING CONTROLS:	Eyewash stations, ventilation systems, showers			
CONTROL MEASURES TO CONSIDER:	Provide adequate ventilation and nearby emergency showers and eyewash stations. Prevent splashing and misting.			
PERSONAL PROTECTION:	Chemical resistant, impermeable gloves. Impervious protective clothing, including boots, apron, face shield and goggles or other eye protection.			
RESPIRATORY PROTECTION:	Use NIOSH / MSHA approved respirator if misting is produced. For extremely high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning devices are not in use, or if air purifying filter capacity/rating may be exceeded.			
SKIN PROTECTION:	Chemical resistant, impermeable gloves, and impervious protective clothing. Avoid skin contact.			
EYE PROTECTION:	Face shield, chemical goggles, and/or other eye protection is required Avoid eye contact			
SPECIFIC HYGENE MEASURES:	Observe good personal hygiene. Wash after handling product and before eating, drinking, or smoking. Wash work clothes and PPE to remove contaminants. Destroy contaminated shoes/boots. Practice good housekeeping.			
ENVIRONMENTALS CONTROLS:	Comply with all local, state and federal regulations limiting discharges to air, water, and soil. Apply appropriate control measures to prevent or limit any potential emissions.			

Section 9 - Physical and Chemical Properties

NOTE: Physical and chemical properties are provided for safety, health, and environmental considerations only, and may not fully represent product specifications.

PHYSICAL FORM	Liquid	FREEZE POINT	~ 32 F	
COLOR	Clear	BOILING POINT	~ 212 F	
ODOR	Slightly Pungent	FLASH POINT	None	Not Flammable
pH	< 2.0	FLAMMABLE LIMITS, % in air	LEL: N/A	UEL: N/A
SPECIFIC GRAVITY	~ 1.05	VAPOR DENSITY, air = 1	> 1	
SOLUBILITY IN WATER	Complete	EVAPORATION RATE, water = 1	~ 1	

Section 10 - Stability and Reactivity

REACTIVITY:	Not reactive, but can be neutralized by the addition of alkali, with some generation of heat
STABILITY:	Stable under normal conditions of storage and use
CONDITIONS TO AVOID:	Do not store in glass containers
MATERIALS TO AVOID:	Halogens, strong alkalis, glass, concrete
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition may produce sulfur oxides and various fluoride gasses
HAZARDOUS POLYMERIZATION:	Will not occur

Section 11 - Toxicological Information

INHALATION	ACUTE TOXICITY	Inhalation of mists can irritate and / or burn respiratory system. Inhalation of mists in sufficient concentrations can cause permanent damage and, extreme cases, death
INGESTION	ACUTE TOXICITY	May be fatal if swallowed and enters airways. Causes gastrointestinal tract burns. May cause severe and permanent damage to the digestive tract.
SKIN	ACUTE TOXICITY IRRITATION / CORROSION	Causes skin burns. Contact with liquid is corrosive and can cause severe burns and ulceration. In extreme cases, exposure can result in the product penetrating the skin and causing severe tissue and bone destruction.
EYE	SERIOUS DAMAGE / IRRITATION	Causes eye burns. May cause chemical conjunctivitis and corneal damage.
SENSITIZATION	RESPIRATORY TRACT SKIN	Not expected to be a respiratory sensitizer, but will severely irritate respiratory tract Not expected to be a skin sensitizer, but can cause skin irritation and burns
ASPIRATION	RESPIRATORY TRACT	Can cause irritation and burns
GERM CELL MUTAGENICITY		Not expected to be a germ cell mutagen.
CARCINOGENICITY		Not expected to cause cancer.
REPRODUCTION TOXICITY		Not expected to be a reproductive toxicant
LACTATION		Not expected to cause harm to breast-fed children
SPECIFIC TARGET ORGAN TOXICITY	SINGLE EXPOSURE REPEATED EXPOSURE	Inhalation may cause damage to respiratory system; Ingestion may cause damage to digestive system. Repeated exposure can cause severe tissue and bone destruction
OTHER INFORMATION		

Section 12 - Ecological Information

ECOTOXICITY	A large spill can result in an environmental hazard and can be destructive to aquatic organisms
MOBILITY	Completely water soluble
PERSISTENCE AND DEGRADABILITY	Not determined
BIOACCUMULATION	Not determined

Section 13 - Disposal Considerations

DISPOSAL RECOMMENDATIONS ARE BASED ON UNUSED MATERIAL. DISPOSAL MUST BE IN ACCORDANCE WITH ALL LOCAL STATE AND FEDERAL REGULATIONS AND MUST BE BASED ON THE MATERIAL CHARACTERISTICS AT THE TIME OF DISPOSAL.

DISPOSAL RECOMMENDATIONS:	Dispose according to all local, state, and federal regulations
REGULATORY INFORMATION:	Recycle any spill amount that can be recovered Any waste sent for disposal must be sent to a RCRA approved waste facility Use, processing or contamination of this product may change the waste management / disposal options
EMPTY CONTAINER WARNING:	Empty containers may contain residue and can be dangerous. Do not attempt to clean or refill an empty container. Empty drums should be sent for recycling or disposal in accordance with all governmental regulations.

EMPTY CONTAINERS RETAIN THE HAZARDOUS CHARACTERISTICS OF THE PRODUCT THEY CONTAINED UNTIL THEY HAVE BEEN CLEANED AND / OR RECYCLED

Section 14 - Transportation Information

LAND - US DEPARTMENT OF TRANSPORTATION (US DOT), PROPER SHIPPING NAME:	UN 1760, CORROSIVE LIQUIDS, N.O.S. (CONTAINS HYDROFLUORIC AND SULFURIC ACIDS), 8, PG II
LAND - CANADA TRANSPORTATION OF DANGEROUS GOODS (CANADIAN TDG):	UN 1760, CORROSIVE LIQUIDS, N.O.S. (CONTAINS HYDROFLUORIC AND SULFURIC ACIDS), 8, PG II
MARINE - INTERNATIONAL MARINE DANGEROUS GOODS (IMDG/IMO):	UN 1760, CORROSIVE LIQUIDS, N.O.S. (CONTAINS HYDROFLUORIC AND SULFURIC ACIDS), 8, PG II
AIR - INTERNATIONAL AIR TRANSPORT ASSOCIATION (ICA/IATA):	UN 1760, CORROSIVE LIQUIDS, N.O.S. (CONTAINS HYDROFLUORIC AND SULFURIC ACIDS), 8, PG II

Section 15 - Regulatory Information

OSHA HAZARD COMMUNICATION STANDARD	This product is hazardous per OSHA HazCom 2012, 29 CFR 1910.1200									
TSCA STATUS	All components listed, or are exempt									
CANADIAN DSL STATUS	All components listed, or are exempt									
SARA SECTION 302 and SECTION 304 STATUS	Both Sulfuric and Hydrofluoric Acids are EPCRA Section 302 listed									
	<table border="0"> <tr> <td></td> <td>Reportable Quantity for a Spill (RQ)</td> <td>Threshold Planning Quantity (TPQ)</td> </tr> <tr> <td>Sulfuric Acid</td> <td>1000 pounds</td> <td>1000 pounds</td> </tr> <tr> <td>Hydrofluoric Acid</td> <td>100 pounds</td> <td>100 pounds</td> </tr> </table>		Reportable Quantity for a Spill (RQ)	Threshold Planning Quantity (TPQ)	Sulfuric Acid	1000 pounds	1000 pounds	Hydrofluoric Acid	100 pounds	100 pounds
	Reportable Quantity for a Spill (RQ)	Threshold Planning Quantity (TPQ)								
Sulfuric Acid	1000 pounds	1000 pounds								
Hydrofluoric Acid	100 pounds	100 pounds								
SARA SECTION 311/312 REPORTABLE HAZARD CATEGORIES	Tier II reportable if stored in sufficient quantities									
SARA SECTION 313 TOXIC RELEASE INVENTORY	Both Sulfuric and Hydrofluoric Acids are SARA Section 313 reportable chemicals									

Section 16 - Other Information

ABBREVIATIONS	N/A	Denotes the section in question "does not apply" to this product
	N/D	Not determined
	STP	Standard temperature and Pressure
	CAS #	Chemical Abstract Service number
	ACGIH	American Conference of Governmental Industrial Hygienists
	NIOSH	National Institute for Occupational Safety and Health
	TLV	Threshold Limit Value
	PEL	Permissible Exposure Limit
	STEL	Short Term Exposure Limit
	NTP	National Toxicology Program
	IARC	International Agency for Research on Cancer
	BOD	Biochemical Oxygen Demand
KEY TO "H" CODES CONTAINED IN SECTION 3:	H301	Toxic if Swallowed
	H304	May be Fatal if Swallowed and Enters Airways
	H312	Harmful in Contact with Skin
	H314	Causes Severe Skin Burns and Eye Damage
	H315	Causes skin irritation
	H318	Causes serious eye damage
	H332	Harmful if Inhaled
	H335	May Cause Respiratory Irritation

THIS SAFETY DATA SHEET IS MADE IN ACCORDANCE WITH GLOBAL HARMONIZATION SYSTEM REQUIREMENTS

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.