



Safety Data Sheet

Section 1. Identification	
Product Identifier	Stay Bright
	Version: 8 Effective Date: 18 January 2023
Other Means Of Identification	Aluminium brightener
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055
Recommended Use and Restrictions On Use	Aluminium brightener. No restrictions.
Product Family	Blend
Emergency Phone	1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST

Section 2. Hazard Identification	
Hazard Classification	 
Physical Hazards	Corrosive to Metals – Category 1
Health Hazards	Acute Toxicity (Dermal) – Category 4 Skin Corrosion/Irritation – Category 1B Eye Damage/Irritation - Category 1
Signal Word	Danger
Hazard Statement	May be corrosive to metals. Harmful if it comes in contact with skin. Causes severe skin burns and serious eye damage.
Precautionary Prevention Statement	Keep in original packaging only. Wear protective gloves, clothing, and eye & face protection. Do not inhale dust or mist. Wash hands thoroughly after handling.
Precautionary Response Statement	Absorb spillage to prevent material-damage. IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin and wash with plenty of water, or shower if on clothing. Wash contaminated clothing before reuse. Call a doctor if you feel unwell. Specific Treatment: Do not induce vomiting unless directed by medical personnel.

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	<p>IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.</p>
Precautionary Storage Statement	Store in a corrosion resistant container with a resistant inner liner. Store locked up.
Precautionary Disposal Statement	Dispose of contents / container in accordance with local regulations.
Other Hazards	None

Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Phosphoric Acid	N/A	7664-38-2	1 - 5
Sulphuric Acid	N/A	7664-93-9	1 - 5
Balance of ingredients are considered non hazardous and constitute a proprietary blend			

Section 4. First Aid Measures	
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	Rinse out mouth, and give two glasses of water. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.
Most Important Symptoms and Effects Both Acute and Delayed	<p>Causes burns. Causes severe respiratory irritation if inhaled. Symptoms may include: Burning of nose and throat, constriction of airway, difficulty breathing, shortness of breath, bronchial spasms, chest pain, and pink frothy sputum. Contact may cause immediate severe irritation progressing quickly to chemical burns. May cause pulmonary edema. Symptoms may be delayed.</p> <p>Can cause blindness.</p> <p>May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Swallowing a small quantity of this material will result in serious health hazard.</p>

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	Repeated or prolonged inhalation may damage lungs. Prolonged and repeated contact will eventually cause permanent tissue damage and effects such as erosion of teeth, lesions on the skin, tracheobronchitis, mouth inflammation, conjunctivitis, and gastritis.
Immediate Medical Attention and Special Treatment	Do not attempt to neutralize the acid with a weak base, as the exothermic reaction may extend the corrosive injury. Do not use buffering agents (antacids) as they can produce significant exothermic reaction without significantly altering the pH.

Section 5. Fire-Fighting Measures	
Suitable and Unsuitable Extinguishing Media	Use extinguishing media suitable for the surrounding fire. Do not get water inside containers. Do not apply water stream directly at source of leak. Do not use a heavy water stream. A direct water stream will cause violent splattering and generation of heat.
Hazardous Combustion Products	Oxides of phosphorus. Oxides of sulphur.
Specific Hazards Arising From the Product	Not flammable. Under conditions of fire this material may produce: Oxides of sulfur and phosphorus; Phosphine.
Special Protective Equipment and Precautions For Fire-Fighters	Fire-fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire. Reacts with metals to generate flammable hydrogen gas. Containers exposed to intense heat from fires should be cooled with water to prevent vapour build up which could result in container rupture. Use water spray or fog to reduce or direct vapours.

Section 6. Accidental Release Measures	
Personal Precautions, Protective Equipment and Emergency Procedures	Chemical resistant (rubber / neoprene) gloves, coveralls and footwear. Stop leak if safe to do so. Eliminate ignition sources. Evacuate unnecessary personnel. Ventilate area. Keep upwind.
Environmental Precautions	Do not allow spilled material to enter surface drains and watercourses.
Methods and Materials For Containment and Clean-Up	Stop the leak at source. Contain spilled material using dikes. Only persons with personal protective equipment should be allowed in the area. Pump up spilled material and place in a suitable container for

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	disposal. Cover contaminated area with soda ash or sodium bicarbonate/ flaked lime (50:50 mix). Mix to a slurry – add water if needed. Scoop up slurry for disposal. Wash area with soda ash solution.
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Section 7. Handling and Storage	
Precautions For Safe Handling	Handle with care. To dilute add product to water slowly to prevent boiling and splattering.
Conditions For Safe Storage	Store in a cool dry place. Keep containers closed when not in use. Empty containers may contain hazardous residues.

Section 8. Exposure Controls / Personal Protection				
Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH *
Phosphoric Acid	1 mg/m ³ (CAD AB OEL)	3 mg/m ³ (CAD AB OEL)		1000 mg/m ³
Sulphuric Acid	1 mg/m ³ (OSHA PEL)			15 mg/m ³ (NIOSH)
* Immediately Dangerous to Life and Health				
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering Controls	Provide sufficient ventilation to keep vapors below the permissible exposure limit. Ensure adequate ventilation, especially in confined areas. Packaging and unloading areas and open processing equipment may require mechanical exhaust systems. Corrosion-proof construction recommended.			
Individual Protective Measures				
Eye / Face Protection	Safety glasses			
Skin Protection	Chemical resistant (rubber/ neoprene) gloves, and coveralls			
Respiratory Protection	Air purifying respirator fitted with cartridges for acid vapours and mists			

Section 9. Physical and Chemical Properties	
Appearance	Pale yellow liquid
Odour	Sharp odour
Odour Threshold	No data
pH	2
Flash Point	> 100 °C
Boiling Point and Boiling Range	No data



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Melting Point and Freezing Point	No data
Evaporation Rate	No data
Flammability (solid, gas)	Not applicable
Upper and Lower Flammability or Explosive Limits	No data
Vapour Pressure	No data
Vapour Density	No data
Relative Density	1.042
Solubility	Soluble
Partition co-efficient n-Octanol/Water	No data
Auto-ignition Temperature	No data
Decomposition Temperature	No data
Viscosity	No data

Section 10. Stability and Reactivity

Reactivity	Reacts with metals with the production of hydrogen gas
Chemical Stability	Stable
Possibility of Hazardous Reactions	Reaction with some incompatible materials – aldehydes / epoxides, can cause polymerization
Conditions to Avoid	None known
Incompatible Materials	Avoid contact with: fluorine, strong oxidizing agents, strong bases, metals, sulphur trioxide, and phosphorus pentoxide
Hazardous Decomposition Products	This material will react with metals to produce hydrogen gas which can form explosive mixtures in air.

Section 11. Toxicological Information

Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric Acid	1530mg/kg (Rat)	2730mg/kg (Rabbit)	850 mg/m ³ (Rat)
Sulphuric Acid	2140mg/kg (Rat)		255 mg/m ³ , 4h (Rat)
Likely Routes of Exposure			
Skin:	May cause severe skin burns.		
Eyes:	May cause severe burns and even permanent blindness.		
Inhalation:	May cause severe irritation of the respiratory tract. Breathing this material may be harmful or fatal.		
Ingestion:	May cause burns and destroy tissue in the mouth, throat and digestive tract. Symptoms may include irritation of the digestive		

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	tract – nausea, vomiting and diarrhoea – abdominal pain and vomiting of blood. Ingestion may be fatal.
Acute Toxicity Estimates (ATE)	Toxic by dermal contact
STOT (Specific Target Organ Toxicity) – Single Exposure	Not classified
Aspiration Toxicity	Causes burns
STOT (Specific Target Organ Toxicity) Single Exposure	Not classified
Skin Corrosion / Irritation	Causes burns
Serious Eye Damage / Irritation	Serious eye damage
Respiratory or Skin Sensitization	Not classified
Carcinogenicity	No direct link has been established but the World Health Organization has concluded that exposure to Sulphuric acid fumes and vapours may be linked to cancer of the larynx and possibly the lung.
Reproductive Toxicity	
- Sexual Function and Fertility	Not classified
- Development of Offspring	Not classified
- Effects on or via Lactation	Not classified
Germ Cell Mutagenicity	Not classified
Interactive Effects	None known
Other Information	None known

Section 12. Ecological Information

Ecotoxicity	Phosphoric acid: LC50: 3 – 3.5 mg/L (Gambusia affinis) Sulphuric acid: harmful to aquatic life at low concentrations and is primarily associated with low pH. 24 hr TLm = 24.5 mg/L (Bluegill) 48 hr TLm = 49 mg/L (Bluegill) 48 hr LC50: 100 – 300 mg/L (Flounder)
Persistence and Degradability	Will not persist
Bioaccumulative Potential	Not available



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Biodegradability	Not available
Mobility in Soil	Not available
Other Adverse Effects	None known

Section 13. Disposal Considerations

Disposal Considerations	Dispose of contents / container in accordance with local regulations.
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Section 14. Transport Information

UN Number	1760
UN Proper Shipping Name	Corrosive Liquid N.O.S (Sulphuric Acid)
Transport Hazard Class(es)	8
Packaging Group	III
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	154

Section 15. Regulatory Information

Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt
TSCA	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
Additional Information	None

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Section 16. Other Information	
NFPA Rating	Health-2/ Flammability-0/Reactivity-2/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-0/Reactivity-2/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	6 January, 2012
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