

Castian 1 Identificat	Section 1. Identification		
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Product Identifier	Chem-Bright	Version: 7	
		Effective Date: 8 December 2020	
Other Means Of	Not applicable		
Identification			
Initial Supplier	Chemfax Products Ltd.		
Identifier	11444 – 42 Street SE		
	Calgary, AB T2C 5C4		
	Tel: 403-287-2055		
Recommended Use	Aluminium Cleaner		
And Restrictions On	Industrial use		
Use			
Product Family	Blend		
Emergency Phone	1-855-887-2055 Monday - Friday 8:00am	- 4:30pm MST	
•		- 4:30pm MST	

Section 2. Hazard Identification		
Hazard Classification		
	Skin Corrosion/Irritation — Category 1B	
	Eye Damage/Irritation – Category 1	
	Acute Toxicity (Oral) - Category 3	
Signal Word	Danger	
Hazard Statement	Causes severe skin burns and eye damage.	
	Toxic if swallowed.	
Precautionary Prevention	Do not inhale dust or mist.	
Statement	Wash hands thoroughly after handling.	
	Wear protective gloves, clothing, and eye & face protection.	
	Do not eat, drink or smoke when using this product.	
Precautionary Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
Statement	Immediately call a POISON CENTRE.	
	IF ON SKIN (or hair): Immediately take off all contaminated	
	clothing. Rinse skin with water or shower if on clothes. Wash	
	contaminated clothing before reuse.	
	IF INHALED: Remove person to fresh air and keep comfortable for	
	breathing.	
	IF IN EYES: Rinse cautiously with water for several minutes.	



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	Remove contact lenses if present and easy to do. Continue rinsing.
	Specific Treatment: First aid procedures require medical personnel.
Precautionary Storage	Store locked up.
Statement	
Precautionary Disposal	Dispose of contents / container in accordance with local regulations.
Statement	
Other Hazards	None

Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Sulphuric acid	Oil of vitriol Ammonium hydrogen	7664-93-9	10 – 30
Ammonium Bifluoride	difluoride	1341-49-7	1 - 10
Balance of ingredients are	e considered non-hazardous and	constitute a proprietary blend	

Section 4. First-Aid Measu	ires
Eye Contact	Immediately flush eyes with water for 30 minutes, preferably 60 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Do not transport victim until flushing period is complete, unless flushing can be continued during transport. Seek IMMEDIATE medical attention.
Skin Contact	Prompt removal of the material from the skin is essential. Remove all contaminated clothing and wash exposed areas with copious amounts of water for a minimum of 30 minutes and up to 60 minutes. Obtain IMMEDIATE medical attention.
Inhalation	Remove victim to fresh air. Obtain IMMEDIATE medical attention.
Ingestion	IMMEDIATELY contact your local Poison Control Centre. If the victim is conscious, alert, and non-convulsing, rinse mouth out and give 1 to 2 glasses of milk (water may be used in place of milk but will not be as effective). If spontaneous vomiting occurs, have the victim lean forward to avoid aspiration of the vomit, rinse mouth and administer more milk or water. Do not induce vomiting. Seek IMMEDIATE medical attention.
Most Important	Corrosive to skin and eye. Highly toxic.
Symptoms and Effects	Causes severe burns by all routes of exposure.
Both Acute and Delayed	



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Immediate Medical	Do not attempt to neutralize the acid with a weak base as the
Attention and Special	exothermic reaction may extend the corrosive injury. Do not use
Treatment	buffering agents (antacids) as they can produce significant exothermic
	reaction without significantly altering the pH.
	Perforation of the esophagus may lead to mediastinitis or peritonitis
	and resultant complications. Mucosal injury following ingestion of
	this corrosive material may contraindicate the induction of vomiting,
	similarly, if gastric lavage is performed, intubation should be done
	with great care. If ingestion is suspected an esophagoscopy should be
	performed as soon as possible. Scope should not be passed beyond the
	first burn due to risk of perforation.
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Section 5. Fire-Fighting Measures		
Suitable and Unsuitable	Do not use water. Use media appropriate for surrounding fire.	
Extinguishing Media		
Hazardous	Thermal combustion products are toxic and may include oxides of	
Combustion Products	sulphur and irritating gases.	
Specific Hazards Arising	Liberates hydrogen fluoride which is highly corrosive and toxic.	
From the Product	Gives off hydrogen by reaction with metals.	
Special Protective	Fire-fighters should wear self-contained breathing apparatus and full	
Equipment and	protective clothing. Use water spray to cool containers and structures	
Precautions for Fire-	exposed to fire.	
Fighters	Avoid direct contact of this product with water as this can cause a	
	violent exothermic reaction. Closed containers exposed to heat may	
	explode. Reacts with most metals to produce hydrogen gas which	
	could make an explosive mixture with air.	

Section 6. Accidental Release Measures		
Personal Precautions,	Any person in the area of the spill should be fully equipped with	
Protective Equipment and	protective equipment – chemical resistant clothing, footwear, gloves,	
Emergency Procedures	safety glasses and respirator. Evacuate personnel to safe area. Keep	
	people away from and upwind of spill/leak.	
Environmental	Do not allow to enter the storm water systems or surface drains. Dike	
Precautions	and contain any spill.	
Methods and Materials for	Do not use any combustible material as an absorbent (i.e. sawdust).	
Containment and Clean	Spilled material may cause floors and contact surfaces to become	
Up	slippery. Residues or material that cannot be recovered must be	
	neutralized with soda ash or sodium bicarbonate (final pH should be 6	
	to 9). Neutralization is expected to be exothermic with vigorous	
	effervescence.	



Section 7. Handling and Storage	
Precautions For Safe	Corrosive material, handle with care. Good housekeeping practices
Handling	should be in place. Containers exposed to heat may be under internal pressure. These should be cooled and carefully vented before opening, protective wear should be worn. When diluting, add small amounts of the product to water to avoid spattering. Never add water to this product.
Conditions For Safe Storage	Store in a cool, well ventilated area. Keep containers closed when not in use. Ensure product segregation measures are in place, keep away from incompatible materials. Containment for spillage should be in place with acid resistant coatings.

Section 8. Exposure Controls / Personal Protection				
Control Parameters Sulphuric acid	TWA: 8 Hr 1 mg/m ³ OSHA (PEL)	STEL: 15 min	Ceiling	IDLH * 15 mg/ m ³ (NIOSH)
Ammonium Bifluoride	2.5 mg/m³ (as F) OSHA PEL * Immediately Da	ngerous to Life and	Health	500 mg/m ³
Exposure Controls	Local exhaust ven	tilation		
Appropriate Engineering Controls	Ensure that eyewa workstation locati	sh stations and safet on.	ty showers are	close to the
Individual Protective Measures				
Eye/Face Protection	Safety glasses.			
Skin Protection	Chemical resistan	t coveralls, gloves ar	nd footwear.	
Respiratory Protection	Air purifying resp particulate.	irator fitted with car	tridges for acid	gases /

Section 9. Physical and Chemical Properties		
Appearance	Pale yellow liquid	
Odour	Pungent	
Odour Threshold	Not available.	
pH	2.0	
Flash Point	> 100 C	
Boiling Point and Boiling Range	No data	



Melting Point and Freezing Point	No data
Evaporation Rate	No data
Flammability (solid, gas)	No data
Upper and Lower flammability or	No data
Explosive Limits	
Vapour Pressure	No data
Vapour Density	No data
Relative Density	1.156
Solubility	Soluble
Partition co-efficient, n-	No data
Octanol/Water	
Auto-ignition Temperature	No data
Decomposition Temperature	No data
Viscosity	No data

Section 10. Stability and Reactivity	
Reactivity	Reacts with metals and bases
Chemical Stability	Stable
Possibility of Hazardous	Will not occur
Reactions	
Conditions to Avoid	Excessive temperatures.
Incompatible Materials	Violently reactive with: sodium chlorite, reducing agents, strong bases, combustibles, metals, alkali metals and their hydrides, organic materials, aluminium and its alloys, copper and its alloys, cast iron, mild steel, and titanium.
Hazardous Decomposition Products	At elevated temperatures, hydrogen fluoride gases may be involved in contact with metals. Material will react with metals as listed above and produce hydrogen gas.

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulphuric Acid	2140mg/kg (Rat)	No data	255 mg/m ³ (Rat) 4h
Ammonium Biflouride	60mg/kg (Rat)		
Likely Routes of Exposure			
Skin: Eyes:	immediately. T	oxic effects are seco	burns if not washed off ndary and may be delayed. uding. Glaucoma, cataracts and
	•	dness may occur.	duing. Stadesma, catalacts and



Inhalation: Ingestion:	May cause severe irritation of the nose, throat and respiratory tract. Repeated and prolonged exposure may cause a productive cough, running nose, bronchopneumonia, pulmonary oedema (fluid build-up in the lungs), and reduction of pulmonary function May causes severe burning and pain in the mouth, throat and abdomen. Vomiting, diarrhea and perforation of the esophagus and stomach lining may occur. Prolonged and repeated exposure may cause discolouration and erosion of the teeth.
Acute Toxicity Estimate (ATE)	No data
STOT (Specific Target Organ Toxicity) – Single	No data
Exposure Aspiration Toxicity	No data
STOT (Specific Target	No data
Organ Toxicity) – Repeated	To unin
Exposure Skin Corrosion / Irritation	Corrosive
Serious Eye Damage /	Risk of serious damage
Irritation	Nisk of serious damage
Respiratory or Skin Sensitization	Did not cause sensitization on laboratory animals.
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	No data
- Development of Offspring	No data
- Effects on or via Lactation	No data
Germ Cell Mutagenicity	No evidence of mutagenic effects
Interactive Effects	No data
Other Information	Toxic effect linked with corrosive properties.

Section 12. Ecological Information	
Ecotoxicity	Sulphuric acid: harmful to aquatic life at low concentrations and is
	primarily associated with low pH.



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24 hr TLm = 24.5 mg/L (Bluegill)
48 hr $TLm = 49 \text{ mg/L (Bluegill)}$
48 hr LC50: 100 – 300 mg/L (Flounder)
Does not bioaccumulate
Will not bioaccumulate
Not available
Not available
None

Section 13. Disposal Consideration	
Disposal Considerations	Dispose of contents/container in accordance with local regulations.

Section 14. Transport Information	
UN Number	UN2796
UN Proper Shipping Name	Sulphuric acid solution
Transport Hazard	8
Class(es)	
Packaging Group	II
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	157

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



Section 16. Other	Information
NFPA Rating	Health-3/ Flammability-0/Reactivity-2/Special Hazard-Not applicable
HMIS Rating	Health-3/Flammability-0/Reactivity-2/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	5 January, 2012
Date of Latest Revision: 8 December 2020	

Disclaimer:

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