


Safety Data Sheet

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

Section 2. Hazard Identification	
Hazard Classification	 <p>Skin Corrosion/Irritation – Category 1B Eye Damage/Irritation – Category 1 Acute Toxicity (Oral) - Category 3</p>
Signal Word	Danger
Hazard Statement	Causes severe skin burns and eye damage. Toxic if swallowed.
Precautionary Prevention Statement	Do not inhale dust or mist. 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 Statement	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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 Statement	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
Sulphuric acid	Oil of vitriol	7664-93-9	10 – 30
Ammonium Bifluoride	Ammonium hydrogen difluoride	1341-49-7	1 - 10
Balance of ingredients are considered non-hazardous and constitute a proprietary blend			

Section 4. First-Aid Measures

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 Symptoms and Effects Both Acute and Delayed	Corrosive to skin and eye. Highly toxic. Causes severe burns by all routes of exposure.

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Immediate Medical Attention and Special Treatment	<p>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.</p> <p>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.</p>
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Section 5. Fire-Fighting Measures	
Suitable and Unsuitable Extinguishing Media	Do not use water. Use media appropriate for surrounding fire.
Hazardous Combustion Products	Thermal combustion products are toxic and may include oxides of sulphur and irritating gases.
Specific Hazards Arising From the Product	Liberates hydrogen fluoride which is highly corrosive and toxic. Gives off hydrogen by reaction with metals.
Special Protective Equipment and Precautions for Fire-Fighters	<p>Fire-fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.</p> <p>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.</p>

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

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Section 7. Handling and Storage	
Precautions For Safe Handling	Corrosive material, handle with care. Good housekeeping practices 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, added 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	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH *
Sulphuric acid	1 mg/m ³ OSHA (PEL)			15 mg/ m ³ (NIOSH)
Ammonium Bifluoride	2.5 mg/m ³ (as F) OSHA PEL * Immediately Dangerous to Life and Health			500 mg/m ³
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering Controls	Ensure that eyewash stations and safety showers are close to the workstation location.			
Individual Protective Measures				
Eye/Face Protection	Safety glasses.			
Skin Protection	Chemical resistant coveralls, gloves and footwear.			
Respiratory Protection	Air purifying respirator fitted with cartridges for acid gases / particulate.			

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

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Melting Point and Freezing Point	No data
Evaporation Rate	No data
Flammability (solid, gas)	No data
Upper and Lower flammability or Explosive Limits	No data
Vapour Pressure	No data
Vapour Density	No data
Relative Density	1.156
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 and bases
Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur
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 Bifluoride	60mg/kg (Rat)		
Likely Routes of Exposure			
Skin:	May cause severe, deep and painful burns if not washed off immediately. Toxic effects are secondary and may be delayed.		
Eyes:	May cause corneal scarring and clouding. Glaucoma, cataracts and permanent blindness may occur.		

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Inhalation:	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
Ingestion:	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 Exposure	No data
Aspiration Toxicity	No data
STOT (Specific Target Organ Toxicity) – Repeated Exposure	No data
Skin Corrosion / Irritation	Corrosive
Serious Eye Damage / Irritation	Risk 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 mg/L (Bluegill) 48 hr LC50: 100 – 300 mg/L (Flounder)
Persistence and Degradability	Does not bioaccumulate
Bioaccumulative Potential	Will not bioaccumulate
Biodegradability	Not available
Mobility in Soil	Not available
Other adverse effects	None

Section 13. Disposal Consideration

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

UN Number	UN2796
UN Proper Shipping Name	Sulphuric acid solution
Transport Hazard Class(es)	8
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:	4 December 2020

Disclaimer:

Notice to reader

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