


Safety Data Sheet

| Section 1. Identification | |
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| Product Identifier | Strike Version: 7 Effective Date: 25 January 2021 |
| Other Means Of Identification | Drain opener |
| Initial Supplier Identifier | Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055 |
| Recommended Use and Restrictions On Use | Drain opener. No restrictions. |
| Product Family | Blend |
| Emergency Phone | 1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST |

| Section 2. Hazard Identification | |
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| Hazard Classification |  |
| Physical Hazards | Corrosive to Metals – Category 1 |
| Health Hazards | Acute Toxicity (Oral) - Category 5 Skin Corrosion/Irritation - Category 1A Eye Damage/Irritation - Category 1 |
| Signal Word | Danger |
| Hazard Statement | May be corrosive to metals. May be harmful if swallowed. Causes severe skin burns and serious eye damage. |
| Precautionary Prevention Statement | Keep in original packaging only Do not inhale mist. Wash hands thoroughly after handling. Wear protective gloves, clothing, eye and face protection. |
| Precautionary Response Statement | Absorb spillage to prevent material damage. Call a doctor if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water or shower if on clothing. Wash contaminated clothing before reuse. |

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| | <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor. Specific Treatment: Do not induce vomiting unless directed by medical personnel. 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 |
|--|-------------------------|--------------------------------------|-------------|
| Sulphuric Acid | Oil of vitriol | 7664-93-9 | 90 - 100 |
| Balance of ingredients are considered non hazardous and constitute a proprietary blend | | | |

Section 4. First-Aid Measures

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| 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. If there is difficulty breathing, seek immediate medical attention. CPR and oxygen should only be administered by trained persons. |
| Ingestion | Do NOT induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention. If conscious, wash mouth out with water |
| Most Important Symptoms and Effects Both Acute and Delayed | 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 |

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| | <p>progressing quickly to chemical burns. May cause pulmonary edema. Symptoms may be delayed.</p> <p>Can cause blindness. 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> <p>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.</p> |
| 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> |

| Section 5. Fire-Fighting Measures | |
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| Suitable and Unsuitable Extinguishing Media | <p>Use extinguishing media suitable for the surrounding fire.</p> <p>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.</p> |
| Hazardous Combustion Products | <p>Thermal combustion products are toxic and may include oxides of sulphur and irritating gases.</p> |
| Specific Hazards Arising From the Product | <p>Not flammable. Under conditions of fire this material may produce oxides of sulphur. Reacts with metals with the production of hydrogen.</p> |
| 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. 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 | |
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| Personal Precautions, Protective Equipment and Emergency Procedures | <p>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.</p> |
| Environmental Precautions | <p>Do not allow spilled material to enter surface drains and watercourses.</p> |
| Methods and Materials For Containment and Clean-Up | <p>Isolate spill and stop leak. Restrict area to required and protected persons only. Ventilate area. Neutralize with lime slurry, limestone or soda ash. Flush area with water to remove residues.</p> |

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| Section 7. Handling and Storage | |
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| Precautions For Safe Handling | Handle with care, corrosive material. Empty containers may contain hazardous residues. Never add water to this material. Do not mix with materials such as bleach. |
| Conditions For Safe Storage | Store in a cool, dry, well ventilated area. Avoid direct sunlight. Keep containers closed when not in use. Drums may require venting to release internal pressure. |

| Section 8. Exposure Controls / Personal Protection | | | | |
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| Control Parameters Sulphuric Acid | TWA: 8 Hr 1 mg/m ³ OSHA (PEL) * Immediately Dangerous to Life and Health | STEL: 15 min | Ceiling | IDLH * 15 mg/m ³ (NIOSH) |
| Exposure Controls | Local exhaust ventilation | | | |
| Appropriate Engineering Controls | Provide sufficient ventilation to keep vapours 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, coveralls and footwear | | | |
| Respiratory Protection | Air purifying respirator fitted with cartridges for acid vapours and mists. | | | |

| Section 9. Physical and Chemical Properties | |
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| Appearance | Dark brown liquid |
| Odour | Pungent odour |
| Odour Threshold | Not available. |
| pH | 0.3 (1 N aqueous solution) |
| Flash Point | > 100 °C |
| Boiling Point and Boiling Range | 150 - 330 °C |
| Melting Point and Freezing Point | -40 to -1.1 °C |
| Evaporation Rate | Not determined |
| Flammability (solid, gas) | Not applicable |
| Upper and Lower Flammability or Explosive Limits | No data |

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| Vapour Pressure | 0.002 to 1.2 @ 20 °C |
| Vapour Density | 3.4 |
| Relative Density | 1.775 |
| Solubility | Soluble |
| Partition co-efficient, n-Octanol/Water | No data |
| Auto-ignition Temperature | No data |
| Decomposition Temperature | 340 °C |
| Viscosity | No data |

Section 10. Stability and Reactivity

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| Reactivity | Extremely reactive with metals, alkalis, reducing agents and many other organic and inorganic chemicals. Hazardous gases such as hydrogen cyanide, hydrogen sulphide, and acetylene are produced on contact with chemicals such as cyanides, sulphides and carbides respectively. Contact with combustible organic matter may cause fire or explosion. Dilution with water generates excessive heat and spattering or boiling may occur. Always add acid to water, NEVER ADD WATER TO ACID. Corrosive to most metals including mild steel, copper, aluminium, zinc, etc., especially when diluted to below 90%. |
| Chemical Stability | Stable |
| Possibility of Hazardous Reactions | Will not occur |
| Conditions to Avoid | Excessive temperatures. Avoid contact with water. Do not store in humid places. Material is hygroscopic (readily absorbs water from the atmosphere). |
| 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, titanium. Material will attack some rubber, plastics and coatings. |
| Hazardous Decomposition Products | Not expected to decompose. 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 | 2.14g/kg (Rat) | | 255mg/m ³ (Rat), 4h |
| Likely Routes of Exposure | | | |

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| Skin: | May cause severe skin burns. |
| Eyes: | May cause severe burns and even permanent blindness. May be corrosive to the respiratory passage. Vapours may cause pulmonary oedema (fluid in the lungs). Symptoms can be delayed for several hours. |
| Inhalation: | This product 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. |
| Ingestion: | |
| Acute Toxicity Estimates (ATE) | Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Dermal LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Vapor LC50 Based on ATE data, the classification criteria are not met. ATE > 20 mg/l. |
| STOT (Specific Target Organ Toxicity) – Single Exposure | Respiratory system |
| Aspiration Toxicity | Not classified |
| STOT (Specific Target Organ Toxicity) – Repeated Exposure | Not classified |
| Skin Corrosion / Irritation | Not classified |
| Serious Eye Damage / Irritation | Not classified |
| Respiratory or Skin Sensitization | Not classified |
| Carcinogenicity | This substance has no evidence of carcinogenic properties. |
| 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 |

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| Section 12. Ecological Information | |
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| Ecotoxicity | 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 |
| Bioacumulative Potential | Will not bioaccumulate |
| Biodegradability | Not available |
| Mobility in Soil | Not available |
| Other Adverse Effects | None known |

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

| Section 14. Transport Information | |
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| UN Number | UN1830 |
| UN Proper Shipping Name | Sulphuric acid |
| Transport Hazard Class(es) | 8 |
| Packaging Group | II |
| Environmental Hazards | Not applicable |
| Bulk Transport | Not applicable |
| Special Precaution | Not applicable |
| DOT Erg# | 137 |

| Section 15. Regulatory Information | |
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| 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 | |
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| 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: | 5 January, 2012 |
| Date of Latest Revision: 25 January 2021 | |
| Disclaimer | |
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