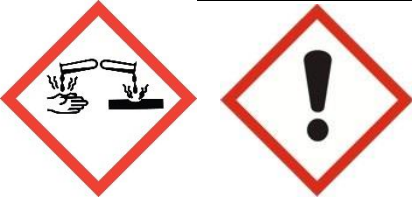


# Safety Data Sheet

| Section 1. Identification            |   |
|--------------------------------------|---|
| <b>Product Identifier</b>            | <b>Power Steam</b>  |
|                                      | <b>Version: 7</b><br><b>Effective Date: 15 January 2021</b>                               |
| <b>Other Means Of Identification</b> | None  |
| <b>Supplier/Manufacturer</b>         | Chemfax Products Ltd.<br>11444 – 42 Street SE<br>Calgary, AB T2C 5C4<br>Tel: 403-287-2055 |
| <b>Initial Supplier Identifier</b>   | Heavy duty cleaner. Do not mix with acids.  |
| <b>Product Family</b>                | Blend   |
| <b>Emergency Phone</b>               | 1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST  |

| Section 2. Hazard Identification          |  |
|---|--|
| <b>Hazard Classification</b>              |    |
| <b>Physical Hazards</b>                   | Corrosive to Metals – Category 1   |
| <b>Health Hazards</b>                     | Skin Corrosion/Irritation - Category 1A<br>Eye Damage/Irritation - Category 1<br>Acute Toxicity (Oral) – Category 4  |
| <b>Environmental Hazards</b>              | Hazardous To The Aquatic Environment – Short Term (Acute) – Category 3   |
| <b>Signal Word</b>                        | Danger   |
| <b>Hazard Statement</b>                   | May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and serious eye damage. Harmful to aquatic life.  |
| <b>Precautionary Prevention Statement</b> | Keep in original packaging only. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not inhale dust or mist. Wear protective gloves, clothing, eye and face protection. Avoid release to the environment. |
| <b>Precautionary Response Statement</b>   | Absorb spilled product to prevent material damage.<br>IF SWALLOWED: Call a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.   |

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|---|--|
|   | <p>IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water or shower if on clothing. Launder contaminated clothing before reuse.</p> <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.</p> <p>Specific treatment: Do not induce vomiting unless directed by medical personnel.</p> <p>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> |
| <b>Precautionary Storage Statement</b>  | Store locked up.   |
| <b>Precautionary Disposal Statement</b> | Dispose of contents / container in accordance with local regulations.  |
| <b>Other Hazards</b>                    | None   |

### Section 3. Composition / Information on Ingredients

| Chemical Name  | Common Name or Synonyms | CAS NO. and Other Unique Identifier | % by weight |
|--|-------------------------|-------------------------------------|-------------|
| Sodium metasilicate  | Liquid glass            | 6834-92-0                           | 1 – 10      |
| Potassium hydroxide  | Caustic Potash          | 1310-58-3                           | 1 – 5       |
| Balance of ingredients are considered non-hazardous and constitute a proprietary blend |                         |                                     |             |

### Section 4. First-Aid Measures

|   |  |
|---|--|
| <b>Eye Contact</b>  | Flush eyes with water for 15 minutes. Seek medical attention.  |
| <b>Skin Contact</b>   | Immediately flush skin with running water. Remove and isolate contaminated clothing and shoes. Seek medical attention if irritation develops and persists.   |
| <b>Inhalation</b>   | Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.  |
| <b>Ingestion</b>  | Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.  |
| <b>Most Important Symptoms and Effects Both Acute and Delayed</b> | Toxic if swallowed. Harmful in contact with skin. Causes severe skin irritation. Symptoms may include redness, blistering, pain and swelling. Causes serious eye damage. Symptoms may include severe pain, blurred vision, redness and corrosive damage. May cause respiratory irritation. Symptoms may include: coughing, choking and wheezing. Could result in pulmonary oedema (fluid accumulation). Symptoms of pulmonary oedema (chest pain, shortness of breath) may be delayed. |

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|  |  |
|--|--|
|  | Ingestion may cause severe burns to the mucous membranes of the digestive tract. Symptoms may include abdominal pain, vomiting, burns, perforations, and bleeding. |
| <b>Immediate Medical Attention and Special Treatment</b> | Immediate medical attention is required. Causes chemical burns. Treat symptomatically.   |

| <b>Section 5. Fire-Fighting Measures</b>                              |   |
|---|---|
| <b>Suitable and Unsuitable Extinguishing Media</b>                    | Use extinguishing media suitable for surrounding fire.  |
| <b>Hazardous Combustion Products</b>                                  | Carbon monoxide and oxides of nitrogen  |
| <b>Specific Hazards Arising From the Product</b>                      | Corrosive to metals with the production of hydrogen gas. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. |
| <b>Special Protective Equipment and Precautions For Fire-Fighters</b> | Fire-fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.     |

| <b>Section 6. Accidental Release Measures</b>                              |  |
|--|--|
| <b>Personal Precautions, Protective Equipment and Emergency Procedures</b> | Gloves (nitrile), glasses, and coveralls. Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate personal protective equipment. |
| <b>Environmental Precautions</b>   | Avoid dispersal of spilled material from runoff, contact with soil, waterways, and drains & sewers.  |
| <b>Methods and Materials For Containment and Clean-Up</b>                  | Stop leak. Dike area if large amounts are spilled. Soak or pump up material into a container suitable for disposal. Wash area with water to remove residues.   |

| <b>Section 7. Handling and Storage</b> |   |
|--|---|
| <b>Precautions For Safe Handling</b>   | Handle with care.   |
| <b>Conditions For Safe Storage</b>     | Store in a cool dry place. Keep container closed when not in use. |

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| Section 8. Exposure Controls / Personal Protection |  |                     |                            |               |
|--|--|---------------------|----------------------------|---------------|
| <b>Control Parameters</b>                          | <b>TWA: 8 Hr</b>   | <b>STEL: 15 min</b> | <b>Ceiling</b>             | <b>IDLH *</b> |
| Potassium hydroxide                                | -  | -                   | 2mg/m <sup>3</sup><br>OSHA |               |
|  | *Immediately Dangerous to Life and Health  |                     |                            |               |
| <b>Exposure Controls</b>                           | Local exhaust ventilation  |                     |                            |               |
| <b>Appropriate Engineering Controls</b>            | Ensure eye wash station and safety shower are available.                                       |                     |                            |               |
| <b>Individual Protective Measures</b>              |  |                     |                            |               |
| <b>Eye / Face Protection</b>                       | Wear chemical safety goggles.  |                     |                            |               |
| <b>Skin Protection</b>                             | Wear long sleeves and other protective clothing to prevent repeated or prolonged skin contact. |                     |                            |               |
| <b>Respiratory Protection</b>                      | Respiratory protection should be worn if mist and aerosols are produced.                       |                     |                            |               |

| Section 9. Physical and Chemical Properties             |                    |
|---|--------------------|
| <b>Appearance</b>                                       | Yellow liquid      |
| <b>Odour</b>  | Lemon Odour        |
| <b>Odour Threshold</b>                                  | No data            |
| <b>pH</b>   | 12 (10% solution)  |
| <b>Flash Point</b>                                      | > 100 °C           |
| <b>Boiling Point and Boiling Range</b>                  | No data            |
| <b>Melting Point and Freezing Point</b>                 | 0 °C               |
| <b>Evaporation Rate</b>                                 | No data            |
| <b>Flammability (solid, gas)</b>                        | N/A                |
| <b>Upper and Lower Flammability or Explosive Limits</b> | No data            |
| <b>Vapour Pressure</b>                                  | No data            |
| <b>Vapour Density</b>                                   | No data            |
| <b>Relative Density</b>                                 | 1.072              |
| <b>Solubility</b>                                       | Completely soluble |
| <b>Partition co-efficient, n-Octanol/Water</b>          | No data            |
| <b>Auto-Ignition Temperature</b>                        | No data            |
| <b>Decomposition Temperature</b>                        | No data            |
| <b>Viscosity</b>  | No data            |

| <b>Section 10. Stability and Reactivity</b> |  |
|---|--|
| <b>Reactivity</b>                           | Reacts with metals and acids                                 |
| <b>Chemical Stability</b>                   | The product is stable  |
| <b>Possibility of Hazardous Reactions</b>   | Will not occur   |
| <b>Conditions to Avoid</b>                  | None known   |
| <b>Incompatible Materials</b>               | Strong acids   |
| <b>Hazardous Decomposition Products</b>     | Under normal storage condition decomposition will not occur. |

| <b>Section 11. Toxicological Information</b>                     |   |                    |                        |
|--|---|--------------------|------------------------|
| <b>Component Toxicity</b>  | <b>LD50 Oral</b>  | <b>LD50 Dermal</b> | <b>LC50 Inhalation</b> |
| Sodium metasilicate  | 847 mg/kg (Rat)   | No data            | No data                |
| Potassium hydroxide  | 273mg/kg (Rat)  |                    |                        |
| <b>Likely Routes of Exposure</b>                                 |   |                    |                        |
| <b>Skin:</b>   | May cause redness and irritation with prolonged or repeated contact.            |                    |                        |
| <b>Eyes:</b>   | Can cause irritation and damage to eyes.  |                    |                        |
| <b>Inhalation:</b>   | May cause irritation of the upper respiratory tract.                            |                    |                        |
| <b>Ingestion:</b>  | May be irritating to mouth and throat. May cause irritation of digestive tract. |                    |                        |
| <b>Acute Toxicity Estimates (ATE)</b>                            | No data   |                    |                        |
| <b>STOT (Specific Target Organ Toxicity) – Single Exposure</b>   | No data   |                    |                        |
| <b>Aspiration Toxicity</b>                                       | No data   |                    |                        |
| <b>STOT (Specific Target Organ Toxicity) – Repeated Exposure</b> | No data   |                    |                        |
| <b>Skin Corrosion / Irritation</b>                               | Corrosive   |                    |                        |
| <b>Serious Eye Damage / Irritation</b>                           | Corrosive   |                    |                        |
| <b>Respiratory or Skin Sensitization</b>                         | Not expected  |                    |                        |
| <b>Carcinogenicity</b>   | Not listed.   |                    |                        |
| <b>Reproductive Toxicity</b>                                     |   |                    |                        |
| - <b>Sexual Function and Fertility</b>                           | No data   |                    |                        |



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|                               |         |
|-------------------------------|---------|
| - Development of Offspring    | No data |
| - Effects on or via Lactation | No data |
| <b>Germ Cell Mutagenicity</b> | No data |
| <b>Interactive Effects</b>    | No data |
| <b>Other Information</b>      | N/A     |

### Section 12. Ecological Information

|                                      |  |
|--------------------------------------|--|
| <b>Ecotoxicity</b>                   | May be harmful to aquatic life. Toxicity is primarily associated with pH.<br>Sodium metasilicate: 96hr LC50: Mosquito fish = 2320 ppm 96hr LC50: Mosquito fish = 530 mg / l 48hr LC50: Water Flea = 113 mg/l 96hr LC50: Scud = 160 mg/l. |
| <b>Persistence and Degradability</b> | Does not persist   |
| <b>Bioaccumulative Potential</b>     | Not available  |
| <b>Biodegradability</b>              | Not available  |
| <b>Mobility in Soil</b>              | Not available  |
| <b>Other Adverse Effects</b>         | N/A  |

### Section 13. Disposal Considerations

|                                |   |
|--------------------------------|---|
| <b>Disposal Considerations</b> | Dispose of contents / container in accordance with local regulations. |
|--------------------------------|---|

### Section 14. Transport Information

|                                   |                          |
|-----------------------------------|--------------------------|
| <b>UN Number</b>                  | 1759                     |
| <b>UN Proper Shipping Name</b>    | Corrosive Solids, N.O.S. |
| <b>Transport Hazard Class(es)</b> | 8                        |
| <b>Packaging Group</b>            | III                      |
| <b>Environmental Hazards</b>      | Not applicable           |
| <b>Bulk Transport</b>             | Not applicable           |
| <b>Special Precaution</b>         | Not applicable           |
| <b>DOT Erg#</b>                   | 154                      |

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| <b>Section 15. Regulatory Information</b> |   |
|---|---|
| <b>Canada – DSL Inventory</b>             | All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt |
| <b>TSCA</b>                               | All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt                   |
| <b>Additional Information</b>             | None  |

| <b>Section 16. Other Information</b>   |   |
|--|---|
| <b>NFPA Rating</b>   | Health-2/ Flammability-0/Reactivity-1/Special Hazard-Not applicable     |
| <b>HMIS Rating</b>   | Health-2/Flammability-0/Reactivity-0/Personal Protection-See Section 8. |
| <b>Prepared by:</b>  | Chemfax Products Ltd., Technical Department                             |
| <b>Date Prepared:</b>  | 6 July, 2012  |
| <b>Date of Latest Revision:</b>  | 15 January 2021   |
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