**SAFETY DATA SHEET**

***This Safety Data Sheet meets or exceeds the requirements of the Canadian Controlled Product Regulations (WHMIS)***

## Section 1: Identification

### 1.1 Product Identifier

**Product Name**: *Car Wash*

### 1.2 Other means of Identification

Not Applicable:

### 1.3 Recommended use and restrictions of use

**Recommended use:**
Cuts through road grim effortlessly to clean cars, trucks, boats, motorcycles and RV's

**Restricted Uses:**
No information available

### 1.4 Initial Suppliers Identifier

Ravcor Cleaning Solutions
108 – 6249, 205th Street,
Langley, B.C., Canada V2Y 1N7
1-604-533-2669

### 1.5 Distributor

BE Pressure Supply
30585 Progressive Way
Abbotsford, BC
Canada V2T 6W3
Phone: (604) 850-6662
Toll Free: 1-800-850-6662

### 1.6 Emergency Telephone Number

**In Event of an Emergency Call:**
1-800-424-9300 CHEMTREC

## Section 2: Hazard Identification

### 2.1 Classification of the Substance or Mixture

**Globally Harmonized System (GHS) Classification**

| Corrosion | |
|---|---|
| Serious Eye Damage/Eye Irritation | Category 2B |

| Moderate Hazard | |
|---|---|
| Acute Toxicity – Inhalation | Category 4 |
| Acute Toxicity - Oral | Category 4 |
| Acute Toxicity – Dermal | Category 4 |
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2 |

### 2.2 GHS Label Elements

**Hazard Pictograms**:

### 2.3 Signal Words

Danger

### 2.4 Hazard Statements

Harmful if swallowed

Causes skin irritation and eye damage

### 2.5 Precautionary Statement

Avoid contact with eyes and skin

Keep out of reach of children

### 2.6 Other Hazards

No additional information available

## Section 3: Composition/Information on Ingredients

3.1 Substances

Not Applicable

3.2 Mixtures

| Chemical Name | CAS No | Weight% | Common Name/Synonyms |
|---|---|---|---|
| Disodium Metasilicate | CAS No 6834-92-0 | 1.25 – 2.5% | Sodium Metasilicate Anhyd (Metso Beads) |
| Ethylene Glycol Monobutyl Ether | CAS No 111-76-2 | 0.25 – 1.25% | Glycol Ether EB |
| Potassium Hydroxide | CAS No 1310-58-3 | 0.25 – 1.25% | Caustic Potash |
| Ingredients which are non-hazardous or do not meet requirements for disclosure | Not Applicable | 95 – 99% | Not Applicable |

## Section 4: First Aid

4.1 Description of First Aid Measures

**General First Aid**

1. Check vital functions
2. If unconscious check air way and maintain air way and respiration
3. If experiencing respiratory arrest supply oxygen or artificial respiration.
4. In cases of cardiac arrest perform resuscitation (CPR).
5. Call for emergency medical services.
6. Show this safety data sheet to the emergency response and doctors in attendance. Immediate medical attention is required.

4.2 Inhalation

Remove source of contamination or remove affected person to fresh air. If breathing is difficult give oxygen. If breathing stops give artificial respiration and call for emergency medical service.

4.3 Ingestion

Never give anything by mouth if victim is rapidly losing consciousness, is unconscious, or is convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 300 mL (10 oz.) of water. If milk is available, administer AFTER the water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. If need immediately transport to emergency medical facility or call for emergency medical services.

4.4 Skin Contact
Avoid direct contact. Wear impervious protective gloves if necessary. Under running water, remove contaminated clothing, shoes, and leather goods such as watchbands and belts. Immediately flush contaminated areas with lukewarm, gently running water for at least 20 minutes. **Do not interrupt flushing**. If needed transport affected person to emergency medical facility or call for emergency medical services.

4.5 Eye Contact
Immediately flush contaminated eye(s) with lukewarm, gently running water for at least 60 minutes while holding the eyelid(s) open. Take care not to rinse contaminated water into a non-affected eye. Neutral saline solution may be used for flushing if available. DO NOT INTERRUPT FLUSHING. If needed transport affected person to emergency medical facility or call for emergency medical services.

4.6 General Comments
Provide general supportive measures (comfort, warmth, rest). Seek medical attention for all exposures except minor instances of inhalation. First-aid procedures should be reviewed by appropriate personnel familiar with strongly caustic products used in the workplace.

## Section 5: Fire Fighting Measures

5.1 Extinguishing Media
Does not burn or support combustion. Use extinguishing agents suitable for the surrounding fire. Use water with caution since it can generate heat if applied directly to product solutions and cause splattering.

5.2 Special Hazards Arising from the Substance or Mixture
Sodium and potassium oxide fumes can be generated by thermal decomposition at elevated temperatures.
At high temperatures, fuming may occur, giving off a strong corrosive gas.

5.3 Special Equipment and Precautions for Fire Fighters
Evacuate area and fight fire from a safe distance. Wear adequate personal protective equipment. Approach fire from upwind. Remove or isolate materials not involved in the fire if it can be done without risk. At high temperatures, fuming may occur, giving off a strong corrosive gas. Chemical resistant clothing and positive pressure SCBA may be required. Water may be used to keep fire-exposed containers cool to prevent rupture. Do not direct water at source of leak.

## Section 6: Accidental Release Measures

6.1 Personal Protections, Protective Equipment and Emergency Procedures
Evacuate unnecessary personnel from spill area. Wear appropriate personal protective equipment as required and ensure area is properly ventilated. Remove chemicals which can react with the spilled material if it can be done without risk. Avoid contact with skin, eyes or clothing.

6.2 Environmental Precautions

Implement spill control plan. Take steps to stop or reduce leaks if safe to do so. Take steps necessary to prevent spill from entering sanitary or storm sewers, waterways, public waters and soil/subsoils by diking with inert materials such as earth or sand.

6.3 Remedial Measures

- Restrict access to area until completion of cleanup.
- Ensure cleanup is conducted by trained personnel only.
- Use all appropriate personal protective equipment.
- Contain and absorb spill with inert materials.
- Neutralization with water, lime or soda ash.
- Ventilate and flush cleaned area with water.
- Notify government occupational health and safety and environmental authorities as applicable.

## Section 7: Handling and Storage

7.1 Precautions for safe Handling

Prevent release of highly corrosive and reactive liquid. Avoid generation of mists. Ensure adequate ventilation. Have emergency equipment readily available. When diluting, slowly add caustic to cold water to avoid boiling or spattering. Keep containers closed when not in use.

7.2 Conditions for Safe Storage, including any incompatibilities

Store in a cool, dry, and well-ventilated area. Store away from incompatible materials such as strong bases. Keep storage area separate from populated work areas. Drums may need to be vented periodically by trained personnel. If drums are swollen, contact manufacturer for advice on special procedures and equipment.

## Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

**Occupational exposure limits:**

| Chemical Name | Alberta OEL | British Columbia OEL | Ontario OEL | Quebec OEL | Exposure Limit-ACGIH | Immediately Dangerous to Life or Health-IDLH |
|---|---|---|---|---|---|---|
| Disodium Metasilicate CAS No 6834-92-0 | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available |
| Ethylene Glycol Monobutyl Ether CAS No 111-76-2 | TWA: 20 ppm TWA:97 mg/m$^3$ | TWA:20 ppm | TWA:20 ppm | TWA:20 ppm TWA:97mg/m$^3$ | 20 ppm TLV-TWA | 700 ppm |
| Potassium Hydroxide CAS No 1310-58-3 | Ceiling: 2mg/m$^3$ | Ceiling: 2mg/m$^3$ | CEV: 2mg/m$^3$ | Ceiling: 2mg/m$^3$ | Ceiling: 2mg/m$^3$ | Not Available |
| Ingredients which are non-hazardous or do not meet requirements for disclosure | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available |

8.2 Exposure Controls

**Appropriate Engineering Controls:**
Use general or local exhaust ventilation to maintain exposure below the exposure limits. These controls may need to be augmented by the use of process or personnel enclosures, control of process conditions, or by process modification.

8.3 Individual Protection Measures, such as Personal Protective Equipment

**Respiratory Protection:**
**Not normally required for most uses.** If respiratory protection is required, NIOSH recommendations for strongly acidic products in air are:
Up to 10 mg/m$^3$: SAR operated in continuous-flow mode; or a full-face piece respirator with high - efficiency particulate filter(s); or a powered air-purifying respirator with dust and mist filter(s); or a full face-piece SCBA or full face-piece SAR.
IDLH Conditions (10 mg/m$^3$) or Planned Entry in Unknown Concentrations: Positive pressure, full face-piece SCBA, or positive pressure full face-piece SAR with an auxiliary positive pressure SCBA.
Escape: Full face-piece respirator with high-efficiency particulate filter(s), or escape type SCBA. NOTE:
Air purifying respirators do not protect against oxygen deficient atmospheres

**Skin Protection:**
Wear impervious gloves and boots and/or other protective clothing according to circumstances. Avoid use of leather and wool. Some operations may require the use of an impervious full-body encapsulating suit.

**Eye and Face Protection:**
Eye protection is required. Chemical safety goggles are recommended. A full-face shield may also be necessary. The wearing of contact lenses is not recommended.

**Footwear:**
As required by worksite rules.

**General precautions:**
Do not ingest. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Have a safety shower and eye wash station readily available in the immediate work area.

## Section 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

| | |
|---|---|
| Appearance | Red Foaming Liquid |
| Boiling Point | No Data Available |
| Colour | Red |
| Critical Temperature | No Data Available |
| Evaporation Rate | No Data Available |
| Flammable (Solid, Gas) | No Data Available |
| Flash Point | No Data Available |
| Freezing Point | ≈ 0 °C |
| Melting Point | No Data Available |
| Odour | Pleasant odour |
| Odour Threshold | Not Determined |
| pH | 11.8 (1.5% Solution) |
| Physical State | Liquid |
| Relative Density | ≈ 1.20 (Water = 1) |
| Relative Evaporation Rate | Not Available |
| Solubility | Soluble in Water in all Concentrations |
| Vapour Density | No Data Available |
| Vapour Pressure | No Data Available |
| Explosive Limits | No Data Available |

## Section 10: Stability and Reactivity

10.1 Reactivity/Chemical Stability
Stable reactions under normal temperature and pressures.

10.2 Possibility of Hazardous Reactions
Risk of exothermic reactions exists for mixing with aqueous solutions. Contact with active metals will produce hydrogen gas, an extremely flammable gas.

10.3 Conditions to Avoid
Strong oxidizing agents and reducing agents.
10.4 Incompatible Materials
Do not mix with acids, solutions containing ammonium and any active metal

10.5 Hazardous Decomposition Products

Hazardous polymerization will not occur.

## Section 11: Toxicological Information

11.1 Information on Toxicological Effects

**Acute toxicity:**

| Chemical Name | Oral LD50 | Inhalation LC50 | Dermal LD50 |
|---|---|---|---|
| Disodium Metasilicate<br>CAS No 6834-92-0 | =1153 mg/kg (rat) | Not Available | Not Available |
| Ethylene Glycol Monobutyl Ether<br>CAS No 111-76-2 | = 470 mg/kg (Rat) | = 450 ppm (Rat) 4h | = 99 mg/kg (Rabbit) |
| Potassium Hydroxide<br>CAS No 1310-58-3 | = 284 mg/kg (Rat) | Not Available | Not Available |
| Ingredients which are non-hazardous or do not meet requirements for disclosure | = 1310 mg/k (Rat)<br>= 2590 mg/kg (Rat)<br>= 22 g/kg (Rat) | Not Applicable | = 1780 µL/kg (Rabbit) |

11.2 Information on Likely Routes of Exposure

**Inhalation:**
Prolonged inhalation may be harmful. Exposure through this route may cause central nervous system depression (CNS), headaches, drowsiness, nausea and vomiting. Although it does not produce a vapour when used as directed, misted produce will may cause respiratory irritation resulting in burns, which may be delayed. This may cause permanent lung damage.

**Ingestion:**
Ingestion may cause irritation in the upper digestive tract, cause burns to mouth, throat, and esophagus. Symptoms can include severe pain, vomiting, diarrhea, collapse and possible death.

**Skin Contact:**
May be irritating to the skin. Sensitization is not expected to occur by skin contact. Upon contact, persons with pre-disposed skin conditions may experience a burning sensation which may produce a rash.

**Eye Contact:**
Damage can range from mild to sever irritation and even mild scarring to blistering.
Use of contact lenses may aggravate the exposure.

11.3 Delayed and Immediate Effects as well as Chronic Effects from Short- and Long-Term Exposure

**Skin Corrosion/Irritation:**
No information Available

**Serious Eye Damage/Eye Irritation:**
No information Available

**Respiratory or Skin Sensitization:**
There are a few reports of chronic respiratory disease from repeated and prolonged exposure to mist.

**Germ Cell Mutagenicity:**
No information Available

**Carcinogenicity:**
There is no evidence of carcinogenicity in humans from occupational exposures.

**Specific Target Organ Systemic Toxicity – Single Exposure:**
No information Available

**Specific Target Organ Systemic Toxicity - Repeated Exposure:**
No information Available

**Aspiration Hazard**:
No information Available

## Section 12: Ecological Information

12.1 Ecotoxicity

| Chemical Name | Ecotoxicity – Freshwater Algae Data | Ecotoxicity – Fish Species Data | Toxicity to Microorganism | Crustacea |
|---|---|---|---|---|
| Disodium Metasilicate CAS No 6834-92-0 | Not Available | 210 mg/L LC50 (Brachydanio rerio) 96 h | Not Available | Not Available |
| Ethylene Glycol Monobutyl Ether CAS No 111-76-2 | Not Available | 1490 mg/L LC50 (Lepomis macrochirus) 96h static 2950 mg/L LC50 (Lepomis macrochirus) 96h | Not Available | EC50: >1000mg/L (48h, Daphnia magna) |
| Potassium Hydroxide CAS No 1310-58-3 | Not Available | Not Available | Not Available | Not Available |
| Ingredients which are non-hazardous or do not meet requirements for disclosure | Not Available | Not Available | Not Available | Not Available |

12.2 Persistence and Degradability
No Information Available

12.3 Bioaccumulation
No Information Available

| Chemical Name | Partition Coefficient |
|---|---|
| Disodium Metasilicate CAS No 6834-92-0 | Not Available |
| Ethylene Glycol Monobutyl Ether CAS No 111-76-2 | 0.81 |
| Potassium Hydroxide CAS No 1310-58-3 | 0.65<br>0.83 |
| Ingredients which are non-hazardous or do not meet requirements for disclosure | Not Available |

**Other Adverse Effects:**
No information available

## Section 13: Disposal Considerations

13.1 Waste Treatment Methods

Disposal of all waste must be done in accordance with municipal, provincial and federal regulations.

Do not reuse empty containers.

## Section 14: Transport Information

**Canadian Transportation of Dangerous Goods Regulations:** Not regulated.

## Section 15: Regulatory Information

Safety, Health and Environment Regulations

Listed on the Canadian Domestic Substances List

## Section 16: Other Information

**Original Preparation Date:**
August 28th$^{th}$, 2018

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