

# MATERIAL SAFETY DATA SHEET

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

# 1. Product and Supplier Identification

Product: EFF-OFF!

Product Use: Efflorescence Remover

Supplier: CBR Products,

#102, 876 Cordova Diversion Vancouver, BC Canada V6A 3R3 Emergency Telephone: (604) 254-3325

Manufacturer: As above

# 2. Composition

Component	% (w/w)	Exposure Limits (ACGIH) <sup>1</sup>	LD <sub>50</sub>	LC <sub>50</sub>
Organic acid salt (CAS No. 506-89-8)	47 - 53	TLV-TWA: Not established PEL-TWA: Not established	Not established	Not established
Non-hazardous ingredients and those below disclosure requirements	47 - 53	Not applicable	Not applicable	Not applicable

American Conference of Governmental Industrial Hygienists (ACGIH). Exposure limits may vary from time to time and from one jurisdiction to another. Check with local regulatory agency for the exposure limits in your area.

### 3. Hazards Identification

#### Routes of Entry:

Skin Contact: Moderate Eye Contact: Major Ingestion: Major Inhalation: Moderate

**Acute Health Effects:** Direct contact may cause minor irritation of the skin. In persons predisposed to skin problems, minor rash may occur. Contact with the eyes may cause burns that may affect corneal opacity. Although ingestion is not a typical route of entry, ingestion may be harmful, or fatal depending upon quantity consumed. Due to the low volatility of this product, inhalation is unlikely. If product is atomized or misted, inhalation will cause moderate to severe irritation of the upper respiratory tract.

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**Chronic Health Effects:** Prolonged contact with the skin may cause drying, defatting, redness, rash leading to dermatitis. Chronic inhalation of mists or vapours may cause irreversible lung damage.

### 4. First Aid Measures

**EYE CONTACT:** Flush contaminated eye(s) with lukewarm, gently running water for 30 minutes, holding eyelids open. Seek medical attention if irritation persists.

**SKIN CONTACT:** Wash affected area immediately with mild soap and water and continue for 15 minutes. If irritation persists, seek immediate medical attention. Remove any contaminated clothing and launder clothing before reuse.

**INHALATION:** This is an unlikely route of entry, but if victim has been exposed to vapours remove to fresh air. If breathing has stopped, a trained person should perform artificial respiration. Get medical attention immediately.

**INGESTION:** *Do not* induce vomiting. Give 3-4 glasses of water to dilute material. If vomiting occurs naturally, have victim lean forward with head between knees to reduce risk of aspiration. Seek medical attention.

# 5. Fire Fighting Measures

Flash point: Not applicable

Autoignition temperature: Not applicable. See information under "Fire Fighting

Instructions"

Lower Explosive Limit:Not applicableUpper Explosion Limit:Not applicableSensitivity to Impact:Not sensitive.Sensitivity to Static Discharge:Not sensitive.

**Conditions to Avoid**: Avoid heating to 100°C to avoid an exothermic reaction releasing carbon

dioxide gas. Prevent contact with metals that may release flammable

hydrogen gas.

Hazardous Combustion Products: Burning may produce oxides of carbon, nitrogen, and

chlorine.

Extinguishing Media: Use a means of extinguishing surrounding fire. Use water spray to cool

containers.

**Fire Fighting Instructions:** This product is an aqueous solution, and will not combust. Do

not enter confined fire space without proper personal protection.

Use approved positive pressure self-contained breathing

apparatus.

### 6. Accidental Release Measures

**Personal Protection:** See Section 8 for proper protective equipment to be worn while cleaning an accidental spill.

Environmental Precautions: Not expected to have any environmental impact.

**Cleanup Procedures:** Evacuate and ventilate area! Make sure spill does not contact any materials listed in Section 10, Incompatibility. Take precautions to prevent entry of the product

into the environment. Absorb onto sand or other inert absorbent media. Shovel into approved closable waste containers for disposal. Thoroughly flush residue with water.

## 7. Handling and Storage

Handling Procedures: Keep out of reach of children! Use in an adequately ventilated area. Keep container tightly closed when not in use. Avoid methods of use that will cause misting of product. Launder clothing before reuse. Wash face and hands thoroughly after handling and before eating, drinking, or using tobacco products. Keep from freezing.

Storage: Store in cool, dry place and in an upright position to prevent leakage and away from acids. Product must be stored in fibreglass, polyethylene, or polypropylene drums at temperatures below 48°C. Do not store in metal drums.

## 8. Exposure Controls, Personal Protection

Engineering Controls: If used indoors, ensure adequate ventilation by using local exhaust.

Respiratory Protection: If product is atomized, or heated to product vapours, use a NIOSH approved organic vapour respirator. When cartridge type respirators are used, ensure that the cartridges are changes frequently. Dust masks will not remove acidic vapours or mist.

Skin Protection: Wear impervious gloves and clothing such as nitrile rubber or neoprene gloves and apron to prevent skin contact.

Eye and Face Protection: Chemical splash-proof goggles or a full face shield must be worn at all times.

Footwear: As required by worksite rules.

**Other:** Eye wash station should be located near work area.

# 9. Physical and Chemical Properties

Clear light amber Vapour Density: No data (air = 1) Appearance:

> Freezing Point -1 °C liquid

**Boiling Point:** 100 °C Mild Odour: **Odour Threshold:** Critical Temperature: No data No data 1.05 - 1.15Relative Density: :Ha 0.5-1.0 **Vapour Pressure:** 

No data. (water = 1)

Soluble in water in Solubility: Partition Coefficient: No data

No data **Evaporation Rate:** all concentrations.

#### **Stability and Reactivity 10.**

Chemical Stability and Reactivity: Product is stable up to 110°C. Product may react with strong mineral acids.

Incompatibility: Avoid contact with strong oxidizers. This product is extremely hazardous when in contact with chlorates or nitrates. Contact with hypochlorites such as household bleach may liberate toxic gases. Contact with alkaline materials such as household ammonia will cause liberation of heat. Hydrogen may be released upon contact with metals such as aluminum.

Hazardous Decomposition Products: Oxides of carbon, nitrogen, and chlorine.

Hazardous Polymerization: Hazardous polymerization will not occur.

### 11. Toxicological Information

Acute ExposureSee Section 2Chronic Exposure:See Section 3.Exposure Limits:See Section 2.Irritancy:See Section 3.Sensitization:See Section 3.

Carcinogenicity: Not listed by IARC, NTP or ACGIH

Teratogenicity:
Reproductive toxicity:
Mutagenicity:
Not available
Not listed
None reported.

# 12. Ecological Information

Environmental toxicity: No data available.

Biodegradability: No data available.

## 13. Disposal Considerations

**Canadian Environmental Protection Act:** All ingredients are listed on the DSL. Dispose according to all local, provincial and federal requirements.

# 14. Transport Information

Canadian Transportation of Dangerous Goods Regulations: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(Urea Monohydrochloride), Class 8, UN 3265, P.G. III

International Air Transport Association (IATA): Corrosive Liquid, Acidic, Organic, n.o.s. (Urea Monohydrochloride), Class 8, UN 3265, P.G. III.

International Maritime Organization (IMO): UN 3265, Corrosive Liquid, Acidic, Organic, n.o.s. (Urea Monohydrochloride), Class 8, P.G. III., EmS No F-A, S-B

# 15. Regulatory Information

#### **Canadian Federal Regulations:**

**Canadian Environmental Protection Act:** All ingredients are on the Domestic Substances List. **WHMIS Classification:** E

### 16. Other Information

Original Preparation Date: February 17, 2003

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**Disclaimer:** This Material Safety Data Sheet was prepared in accordance with criteria and requirements of the Hazardous Products Act and the Controlled Products Regulations using information provided by the manufacturer and other sources including CCINFO (Chemical Information published by the Canadian Centre for Occupational Health and Safety). The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. CBR Products expressly disclaims all expressed or implied warranties and assumes no responsibilities for the accuracy or completeness of the data contained herein. The data in this MSDS does not apply to use with any other product or in any other process.

This Material Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of CBR Products.

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