

## MATERIAL SAFETY DATA SHEET

**FC2000 EFFLORESCENCE & RUST REMOVER****SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

**Product Name:** Efflorescence & Rust Remover FC2000  
**Chemical Family:** Acid Cleaner  
**Product Use:** Remove rust and efflorescence on stone, tiles and metal.  
**Distributor:** FCS Solutions Ltd.  
**Address:** #71513, 12955-153 Avenue MW  
Edmonton, AB T6V 0E3  
**Telephone:** 1-780-487-3787, 1-877-288-3787

**SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS**

Ingredients	Percent	CAS#
Organic salt	5 – 15%	confidential

**SECTION 3 – HAZARDS IDENTIFICATION**

**Emergency Overview:** This product is a colorless to slight amber liquid with a low odor. It is a severe eye irritant and a mild skin irritant. If ingested, this product may be harmful.

**Potential Health Effects:**

**Eyes:** Product expected to be a severe eye irritant

**Skin:** Prolonged or repeated contact can cause irritation.

**Non Corrosive to Skin:** (as defined and tested in accordance with the U.S. OSHA's Hazard Communication Standard, DOT Hazardous Material Regulations, Canada's WHMIS regulations and TDG Regulations. Classified as a mild skin irritant as per the 1992 OECD Guideline for Testing of Chemicals, Number 404<Acute Dermal Irritation – Corrosion>

**Ingestion:** This product may be harmful if ingested.

**Inhalation:** Not a likely route of exposure due to physical properties. Product has a very low vapor pressure at room temperature and is not expected to present an inhalation hazard under ambient conditions.

**Chronic Effects:**

**Skin:** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Carcinogenicity:** Non-Hazardous by WHMIS – OSHA criteria. Not listed by IARC, NTP or ACGIH.

**SECTION 4 – FIRST AID MEASURES**

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and seek medical attention.

**Skin:** Immediately flush with mild soap and water for 15 minutes. Seek medical attention if irritation develops. Remove contaminated clothing and launder before reuse.

**Eye:** Immediately flush with water for 15 minutes. Seek medical attention.

**Ingestion: CAUTION:** If ingested Do Not Induce Vomiting. If the person is conscious drink a glass of water and get medical attention. Do not give anything by mouth to unconscious person. Get medical attention promptly.

**SECTION 5 – FIRE FIGHTING MEASURES**

**Flammability:** Not flammable.

**Flash Point:** (°F, °C, PMCC) Does not ignite.

**Auto-ignition Temperature:** (°F, °C): Not applicable.

**Flame propagation or Burning Rate of Solid Materials:** Not applicable.

**Sensitivity to static discharge:** Not applicable. **Sensitivity to Mechanical Impact:** Not applicable.

**Extinguishing Media:** Water spray, carbon dioxide and dry chemical.

**Special Fire Fighting Procedures:** Evacuate personnel to safe area. Keep containers cool with water spray. Avoid breathing decomposition products. Wear self-contained breathing apparatus and full body protection.

**Hazardous Decomposition Products:** Thermal decomposition may yield but not limited to oxides of carbon and nitrogen. Hydrogen gas may be released upon contact with certain metals.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Leak and Spill Procedure:** Evacuate area. Ventilate area. Collect for disposal. Clean up remaining materials from spill with suitable absorbent. Small spills may be absorbed with non-reactive absorbent (sand) and placed in suitable, covered, labeled containers. For large spills, provide diking or other appropriate containment to keep material from spreading. Prevent large spills from entering sewers or waterways. If diked material can be pumped, store recovered material in compatible drums for recovery or disposal. Observe all personal protection equipment recommendations.

**SECTION 7 – HANDLING AND STORAGE**

**Storage Requirements: Keep Out Of Reach Of Children.** Keep container tightly closed. Store in fiberglass, polyethylene or polypropylene containers. Do not store in metal containers, especially aluminum. Storage in certain metal containers at temperatures above 60°C / 140°F may result in hydrogen gas evolution. Do not store at temperatures above 48°C / 120°F.

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**SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION**

**Engineering controls:** Not normally required when ventilation is adequate.

**Respiratory protection:** Not normally required if good ventilation is maintained. Avoid breathing vapor and/or mist.

**Eye protection:** Use chemical goggles or full face shield. **Skin protection:** Use impervious (rubber, nitrile) gloves.

**Other protective clothing or equipment:** Eye bath, Safety shower, Full protective clothing.

**Work Hygienic practices:** The usual precaution for the handling of chemicals must be observed.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Clear colorless to pale amber liquid.

**Solubility in water:** Soluble (100% in water)

**Boiling point:** 100°C / 212°F

**Freezing point:** 0°C

**Odor:** Very mild odor.

**PH:** > 1

**Density:** 1.040

**SECTION 10 – STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to avoid:** Heating above 110°C results in an exothermic decomposition with release of CO<sub>2</sub> gas.

**Incompatible Materials:** Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorite (e.g. chlorine bleach, sulfides or cyanides) will liberate toxic gases. Contact with alkaline materials (e.g. aqua ammonia) will generate heat.

**Hazardous Decomposition Products:** Thermal decomposition may yield, but not limited to, oxides of carbon and nitrogen. Hydrogen gas may be released upon contact with metals. **Hazardous Polymerization:** Will not occur.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Carcinogenicity:** Non – hazardous by WHMIS / OSHA criteria. Not listed by IARC, NTP or ACGIH.

**Acute skin irritation / corrosion test:** This product was found to be not corrosive to the skin after 4 hours of direct skin contact.

**SECTION 12 – ECOLOGICAL INFORMATION**

**Environmental Fate:** Urea and organic acid are known to be biodegradable.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

Review federal, provincial, state or local government requirements prior to disposal.

**SECTION 14 – TRANSPORT INFORMATION**

**U.S. Department of Transportation (Road or rail):** Not Regulated. **Canadian T.D.G.:** Not Regulated **IMO Water Transportation:** Not Regulated. **IATA Air Transportation:** Not Regulated.

**SECTION 15 – REGULATORY INFORMATION**

**Occupational Health & Safety Regulations:**

**WHMIS Classification:** Class D – Division 2B

**OSHA & WHMIS:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Act).

**Environmental Regulations Lists:**

**SARA:** Section 313 (Toxic Chemical Release Reporting) 40 CFR 372 – None of the ingredients are listed.

**Toxic Substance Control Act (TSCA):** all the ingredients are listed on the Chemical Substance Inventory.

**Canadian Non-Domestic Substance List (NDSL):** All ingredients are listed.

**California Prop. 65:** The following components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity: **Chemical name:** None

**SECTION 16 – OTHER INFORMATION**

**Shipping containers:**

Polyethylene drums, Polyethylene pails and bottles

**WHMIS Rating:**

**Health:** 2

**Flammability:** 0

**Reactivity:** 0

**PPE:** B

Date: January 1, 2018

*Disclaimer: As the handling and use of products under user's conditions are beyond our control, no warranty, expressed or implied, including, but not limited to merchantability or fitness for a particular use, is made concerning this product. The user assumes all risk of use or handling whether or not in accordance with any directions or suggestions of the supplier. Seller shall not be liable to purchaser or any other person for loss or damages directly or indirectly arising from the use of our products, from breach of any warranty or from any other cause, the exclusive remedy against the seller being to require replacement or repair of defective goods.*