

Issue Date 20-May-2015

Revision Date 27-May-2015

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** Efflorescence Cleaner

### Other means of identification

**Product Code** FG00082

**Synonyms**

### Recommended use of the chemical and restrictions on use

**Recommended Use** Concrete Surface Preparation.

**Uses advised against** No Data

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Surface Koatings, Inc. 134 Davis Street Portland, TN 37148 Telephone (615) 323-9461

### Emergency telephone number

**Company Phone Number** (615) 323-9461

**24 Hour Emergency Phone Number** 800-535-5053 (United States & Canada), International Call: 1-352-323-3500

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label elements

#### Emergency Overview

**Danger!**

#### **Hazard statements**

Causes severe eye burns.

Causes severe skin burns.

Harmful if ingested.

May cause cancer



**Appearance** Transparent Blue Liquid

**Physical state** liquid

**Odor** Cherry - Slightly Acidic Odor

### **Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF exposed or concerned: Get medical advice/attention.  
 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.  
 Dispose of contents/container to an approved waste disposal plant.

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed.  
 Keep from freezing.

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local/regional/national regulations.

**Hazards not otherwise classified (HNOC)**

**Other Information**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance**

| Chemical Name               | CAS No.   | Weight-% | Trade Secret |
|-----------------------------|-----------|----------|--------------|
| Non-hazardous ingredient(s) | -         | 95-99    | *            |
| Hydrochloric acid           | 7647-01-0 | 10 - 30  | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES**

**Description of first aid measures**

**General advice** Get medical attention immediately. Remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

**Eye contact** IF IN EYES: If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

**Skin contact** IF ON SKIN: Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice or attention.

**Inhalation** IF INHALED: If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Seek immediate medical attention/advice.

**Ingestion** IF SWALLOWED: If swallowed, do not induce vomiting. If swallowed, give victim several glasses of water. If vomiting does occur, give additional fluids.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Eye, Skin, and Respiratory Irritation.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically. For additional information, see Safety Data Sheet.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

This material does not present any unusual fire or explosion hazards. Material does not burn. Use extinguishing measures appropriate to the source of fire.

**Unsuitable extinguishing media** Not Applicable.

**Specific hazards arising from the chemical**

Not Applicable.

**Explosion data**

**Sensitivity to Mechanical Impact** Not available.

**Sensitivity to Static Discharge** Not sensitive.

**Protective equipment and precautions for firefighters**

Wear self-contained breathing apparatus and protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Wear personal protection equipment (see section 8). Avoid contact with eyes and skin. Avoid inhaling mists and vapors. Keep unprotected persons away.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Absorb with liquid-binding material (sand, diatomite, acid binders, and universal binders.) Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

**Methods for cleaning up** Collect spillage.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Ensure good ventilation/exhaustion at the workplace. Avoid contact with aluminum and other metals. Reactions with aluminum, particularly foil, may generate flammable hydrogen gas. Use, store and transfer only with acid resistant plastic containers, DO NOT USE aluminum or any other metal container.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

**Incompatible materials** Bases, amines, alkali metals, metals - especially aluminum, permanganates, Fluorine, metal acetylides, hexalithium disilicide, and bleach.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Chemical Name                  | ACGIH TLV      | OSHA PEL   | NIOSH IDLH   |
|--------------------------------|----------------|--|--|
| Hydrochloric acid<br>7647-01-0 | Ceiling: 2 ppm | (vacated) Ceiling: 5 ppm<br>(vacated) Ceiling: 7 mg/m <sup>3</sup><br>Ceiling: 5 ppm<br>Ceiling: 7 mg/m <sup>3</sup> | IDLH: 50 ppm<br>Ceiling: 5 ppm<br>Ceiling: 7 mg/m <sup>3</sup> |

**Appropriate engineering controls**

**Engineering Controls** General/Local Ventilation Recommended.

**Individual protection measures, such as personal protective equipment**

- Eye/face protection** Wear safety glasses with side shields (or goggles).
- Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant gloves at minimum. Wash skin immediately upon contact. Wash hands at mealtime and end of shift.
- Respiratory protection** Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after breaks and at the end of the work day.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

|                       |                         |                       |                          |
|-----------------------|-------------------------|-----------------------|--------------------------|
| <b>Physical state</b> | liquid                  | <b>Odor</b>           | Cherry - Slightly Acidic |
| <b>Appearance</b>     | Transparent Blue Liquid | <b>Odor threshold</b> | No data available        |
| <b>Color</b>          | blue                    |                       |                          |

| <u>Property</u>                | <u>Values</u>         | <u>Remarks • Method</u> |
|--------------------------------|-----------------------|-------------------------|
| pH                             | 1.5-2.5               |                         |
| Melting point / freezing point | Not Applicable/ 32° F |                         |
| Boiling point / boiling range  | 100 °C                |                         |
| Flash point                    | Not Applicable        | CC (closed cup)         |
| Evaporation rate               | Not Available         |                         |
| Flammability (solid, gas)      | Not Relevant          |                         |
| Flammability Limit in Air      |                       |                         |
| Upper flammability limit:      | Not Available         |                         |
| Lower flammability limit:      | Not Available         |                         |
| Vapor pressure                 | Not Available         |                         |
| Vapor density                  | Not Available         |                         |
| Relative density               | Not Available         |                         |
| Water solubility               | Soluble in water      |                         |
| Solubility in other solvents   | Not Available         |                         |
| Partition coefficient          | Not Available         |                         |
| Autoignition temperature       | Not Available         |                         |
| Decomposition temperature      | Not Available         |                         |
| Kinematic viscosity            | Not Available         |                         |

Dynamic viscosity Not Available  
 Explosive properties Not Available  
 Oxidizing properties Not Available

**Other Information**

Softening point Not Relevant  
 Molecular weight Not Available  
 VOC Content (%) Not Applicable  
 Density Not Available  
 Bulk density Not Available

**10. STABILITY AND REACTIVITY**

**Reactivity**  
 Not Available

**Chemical stability**  
 Stable.

**Possibility of Hazardous Reactions**  
 No data available.

**Conditions to avoid**  
 None known.

**Incompatible materials**  
 Bases, amines, alkali metals, metals - especially aluminum, permanganates, Fluorine, metal acetylides, hexalithium disilicide, and bleach.

**Hazardous Decomposition Products**  
 None Known.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Direct contact and vapor inhalation.  
**Eye contact** Direct contact.  
**Skin contact** Direct contact.  
**Ingestion** Direct contact.

| Chemical Name                  | Oral LD50           | Dermal LD50             | Inhalation LC50        |
|--------------------------------|---------------------|-------------------------|------------------------|
| Hydrochloric acid<br>7647-01-0 | = 700 mg/kg ( Rat ) | > 5010 mg/kg ( Rabbit ) | = 3124 ppm ( Rat ) 1 h |

**Information on toxicological effects**

**Symptoms** May cause drowsiness or dizziness if inhaled. May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Irritating to skin.  
**Serious eye damage/eye irritation** Irritating to eyes.  
**Irritation** Irritating to eyes, respiratory system and skin.  
**Sensitization** No data available.  
**Germ cell mutagenicity** No data available.  
**Carcinogenicity** This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

| Chemical Name                  | ACGIH | IARC    | NTP | OSHA |
|--------------------------------|-------|---------|-----|------|
| Hydrochloric acid<br>7647-01-0 | -     | Group 3 | -   | -    |

**Reproductive toxicity** Not Available.  
**STOT - single exposure** Not Available.  
**STOT - repeated exposure** Not Available.  
**Aspiration hazard** Not Available.

**Numerical measures of toxicity - Product Information**

**12. ECOLOGICAL INFORMATION**

No available data.

**Ecotoxicity**

| Chemical Name                  | Algae/aquatic plants | Fish   | Crustacea |
|--------------------------------|----------------------|--|-----------|
| Hydrochloric acid<br>7647-01-0 | -                    | 282: 96 h Gambusia affinis mg/L<br>LC50 static | -         |

**Persistence and degradability**

No data available.

**Bioaccumulation**

No data available.

**Other adverse effects**

No data available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes** Must not be disposed of together with household garbage. Do not allow product to reach waterways or storm sewers. Disposal must be made in accordance with local, state and federal regulations.

**Contaminated packaging** Dispose of in accordance with federal, state and local regulations.

**14. TRANSPORT INFORMATION**

**DOT** UN1760, Hydrochloric Acid, N.O.S., 8, III  
**Marine pollutant** No available data.  
**Description** Ground Transportation Only: ORM-D in containers of less than 4 liters.

**IATA** UN1760, Hydrochloric Acid, N.O.S., 8, III

**IMDG** UN1760, Hydrochloric Acid, N.O.S., 8, III

**15. REGULATORY INFORMATION**

**International Inventories**

|               |                 |
|---------------|-----------------|
| TSCA          | Does not comply |
| DSL/NDSL      | Does not comply |
| EINECS/ELINCS | Does not comply |
| ENCS          | Does not comply |
| IECSC         | Does not comply |
| KECL          | Does not comply |
| PICCS         | Does not comply |
| AICS          | Does not comply |

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

**CWA (Clean Water Act)**

Does not apply

| Chemical Name                  | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Hydrochloric acid<br>7647-01-0 | 5000 lb                     | -                      | -                         | X                          |

**CERCLA**

Does not apply

| Chemical Name                  | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                   |
|--------------------------------|--------------------------|----------------|--|
| Hydrochloric acid<br>7647-01-0 | 5000 lb                  | 5000 lb        | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

**US State Regulations**

**California Proposition 65**

This product contains chemicals known to the state of California to cause birth defects or other reproductive harm

**U.S. State Right-to-Know Regulations**

**U.S. EPA Label Information**

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

|                    |                  |                |               |                                    |
|--------------------|------------------|----------------|---------------|------------------------------------|
| <b><u>NFPA</u></b> | Health hazards 1 | Flammability 1 | Instability 3 | Physical and Chemical Properties - |
|--------------------|------------------|----------------|---------------|------------------------------------|

**HMIS** Health hazards 1 Flammability 1 Physical hazards 3 Personal protection -

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Revision Note

No data available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**