

Safety Data Sheet

EFFLORESCENCE



FRONT 9 RESTORATION

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ISSUE DATE: February 2014

FRONT9 RESTORATION urges each recipient of the MSDS to read it carefully to understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology and fire prevention, as needed to understand the data in the MSDS.

To promote safe handling, each recipient of the MSDS should: (1) notify anyone using the material of the MSDS information regarding hazards or safety; (2) furnish the MSDS information to customers purchasing the product; and (3) request the customers furnish MSDS information to all users.

Emergency and First Aid Procedures

Swallowing: Rinse mouth and throat thoroughly with water. Drink large amounts of water. DO NOT induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Seek medical attention immediately.

Skin Contact: Wash skin with flowing water or shower. If irritation persists, seek medical attention.

Inhalation: Remove the affected victim from exposure. Administer artificial respiration if breathing stopped. Seek medical attention immediately.

Eye Contact: Flush eyes with water for 15 minutes. If irritation persists, seek medical attention.

1. Identification

Product Name: EFFLORESCENCE

Chemical Name: Blend

2. Hazards

PRINCIPAL HAZARDOUS COMPONENTS	CAS #
Hydrochloric Acid	7647-01-0

3. Physical Data

Appearance: Clear to yellowish liquid
Odor: Slightly pungent
Solubility in Water by Wt.: Complete
Boiling Point: Approximately 212°F (100°C)
Freezing Point: Below -4°F (-20°C)
Vapor Density (Air=1): > 1
Evaporation Rate (BuAc=1): < 1
Specific Gravity: 1.11 @ 68°F (20°C)
pH Concentrate: Less than 1

4. Fire and Explosion Hazard

Flash Point: No data
Flammable Limits in Air: No data
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective equipment.
Unusual Fire and Explosion Hazards: Product is corrosive and produces hydrogen chloride fumes when heated. May react with many metals liberating hydrogen gas, which can form explosive mixtures.
Extinguishing Media: Dry chemical, foam, water or carbon dioxide

5. Health Hazard Data

COMPONENT	OSHA/ PEL	ACGIH/ TLV
Hydrochloric Acid	5 ppm	5 ppm

Effect of Overexposure:

Swallowing: May be fatal if ingested. May cause severe burns to mouth, throat, and gastrointestinal tract.

Skin Contact: No effect for healthy, intact skin. May cause irritation.

Inhalation: Overexposure will cause irritation or burns to respiratory tract.

Eye Contact: Corrosive. May cause redness, burns, and irreversible damage to eye.

Carcinogenicity:

NTR: No
IARC: No
OSHA: No

6. Reactivity Data

Stability: Stable at normal conditions

Conditions to Avoid: Avoid high temperatures and incompatible chemicals.

Incompatibility (Materials to Avoid): Alkalis, strong oxidants, acetic anhydrides, oleum, amines, and vinyl acetate. Reacts with carbon steel, aluminum, and copper.

Hazardous Combustion or Decomposition Products: HCl gas evolved from heating; hydrogen gas evolved by reaction to metals

Hazardous Polymerization: Will not occur

7. Spill, Leak, and Waste Disposal Procedures

Steps to be Taken in Case Material is Released or Spilled:

Deny access to the area. Ventilate the area well. Large spills or leaks should be cleaned up and controlled with an inert absorbent material. Flush surface with water and neutralize with soda ash or other acid-neutralizing agent. Prevent material from entering waterways. Reportable Quantity (RQ) is 8,000 lbs.

Waste Disposal Method: Dispose according to all local, state, and federal regulations.

8. Handling and Storage

Store in a dry, well-ventilated area away from heat and direct sunlight. Do not store near alkalis, highly flammable or oxidizing substances. Store in a closed, properly labeled, acid resistant container. Product must not contact hydrogen sulfide gas, chlorine bleach, or cyanide.
Keep out of reach of children.

9. Special Protection Information

Respiratory Protection: Not normally required for a limited quantity. Use acid resistant respirator if concentration is high.

Ventilation: Use in well-ventilated area to eliminate vapors. Mechanical exhaust is not normally required unless used in a confined area and/or if individual has a sensitive respiratory system. *Note: Vapor build-up can cause corrosion of metal surfaces in treatment area.*

Protective Gloves: Water-resistant gloves

Eye Protection: Safety goggles and/or face shield

Protective Clothing: Where contact may occur, wear protective clothing.

Other Protective Clothing or Equipment: An eyewash station should be nearby and ready for use.

10. Regulation Information

Status On Substance Lists: None known

Federal EPA: None

State Right-To-Know: None known

11. Transportation Data

Proper Shipping Name: Corrosive Liquid, n.o.s. (contains Hydrochloric Acid)

DOT: UN1760, Class 8, P.G. III

Quantity: Quarts and gallons are shipped as ORM-D Consumer Commodity. Larger sizes, 5 gallons or more, are shipped as a Corrosive.

CHEMICAL WARNING LABELS

Required on containers, tubs, and bottles, which are filled from original containers with potentially hazardous substances

Hazard rating corresponding to the NFPA Rating System:

- 4 - Extreme
- 3 - High
- 2 - Moderate
- 1 - Slight
- 0 - Insignificant

NFPA HAZARD RATING

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 2

Chemical Warning Label - FRONT9 RESTORATION, INC.

EFFLORESCENCE
NO WALL REFERENCE NECESSARY

Product Name: EFFLORESCENCE

Hazardous Chemicals: Hydrochloric acid

Personal Protection: Gloves, safety goggles, and/or face shield

ROUTE OF ENTRY	HEALTH HAZARD	FIRE HAZARD
<input checked="" type="checkbox"/> Inhalation	<input checked="" type="checkbox"/> Irritant	<input type="checkbox"/> Below 73°F (23°C)
<input checked="" type="checkbox"/> Ingestion	<input type="checkbox"/> Carcinogen	<input type="checkbox"/> Below 100°F (38°C)
<input checked="" type="checkbox"/> Skin/eye absorption	<input type="checkbox"/> Toxic	<input type="checkbox"/> Above 100°F (38°C) & not > 200°F (93°C)
	<input type="checkbox"/> Sensitizer	<input type="checkbox"/> Above 200°F (93°C)
	<input type="checkbox"/> Normal Material	<input checked="" type="checkbox"/> Will not burn
TARGET ORGAN EFFECTS	PHYSICAL HAZARD	REACTIVITY
<input checked="" type="checkbox"/> Respiratory	<input type="checkbox"/> Oxidizer	<input type="checkbox"/> May detonate
<input type="checkbox"/> Heart	<input checked="" type="checkbox"/> Acid	<input type="checkbox"/> Shock and heat may detonate
<input type="checkbox"/> Kidney	<input type="checkbox"/> Alkali	<input type="checkbox"/> Violent chemical change
<input checked="" type="checkbox"/> Eyes	<input checked="" type="checkbox"/> Corrosive	<input checked="" type="checkbox"/> Unstable if heated
<input checked="" type="checkbox"/> Skin	<input type="checkbox"/> Use no water	<input type="checkbox"/> Stable
<input type="checkbox"/> Prostate	<input type="checkbox"/> Radioactive	
<input type="checkbox"/> Blood		
<input type="checkbox"/> Liver		
<input type="checkbox"/> CNS		
<input type="checkbox"/> Other		

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