

MATERIAL SAFETY DATA SHEET

(MSDS Sheet is in compliance with 29CFR 1910. 1200)

Manufacturer:
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Date Prepared: 01/20/1998
CAT #: DFS-32; DFS-100;

Product Trade name: Differentiating Solution
Product Description: Differentiating Agent

Section I Hazardous Composition Information

Hazardous Components	CAS No.	OSHA PEL	ACGIH / TLV	TWA
Hydrochloric Acid	7647-01-0	5ppm	n/a	7mg/m

Section II Physical and Chemical Characteristics

Specific Gravity: 1.1 @ 77 F
Solubility in Water: Soluble
SP. Gravity of Vapor: n/a
Evaporation Rate (n-Bu Acetate = 1): n/a
Vapor Pressure: n/a
Viscosity: n/a
Boiling Point: 198 F
Color: Gin White **Odor:** Aromatic odor **State:** Liquid

Section III Stability and Reactivity

Stability: Stable.
Conditions to Avoid: n/a
Hazardous Polymerization: Will not occur.
Incompatible Materials: Strong Alkalines and metals.
Hazardous Decomposition Products: Products of biodegration are Carbon monoxide and Hydrogen.

Section IV Fire and Explosion Data

Flashpoint: Non-Flammable
Flammable Limits: **LEL:** n/a **UEL:** n/a
Autoignition Temperature: n/a
Extinguishing Media: Foam, Dry Chemical, Water Spray, CO2.
Special Fire Fighting Procedure: n/a
Decomposition Products Under Fire Conditions: n/a

Section V Health Hazard Data

Acute Health Effects:

Eye Contact: May cause eye irritation.
Skin Contact: May cause skin irritation.
Inhalation: No inhalation hazard identified from available data.
Ingestion: No ingestion hazard identified from available data.

Chronic Health Effects:

Eye Contact: Prolonged contact will cause eye irritation and possibly chemical burns to eyes.

Skin Contact: Prolonged exposure may cause skin irritation and mild burns.

Inhalation: Prolonged inhalation may cause irritation to mucous membranes.

Ingestion: Repeated exposure by ingestion may cause general deterioration of health by accumulation in one or more human organs.

Medical Conditions Aggravated by Exposure: This product contains : Hydrochloric Acid, acknowledged by OSHA and NIOSH to possibly cause cancer and target organ damage by accumulation.

Section VI Emergency First Aid Procedures

Eye Contact: Flush eye with copious amounts of water or saline solution. Seek Medical Attention.

Skin Contact: Wash contact area with soap and water. Seek medical attention if symptoms persist.

Inhalation: Remove victim to well ventilated area. Seek medical attention if symptoms persist.

Ingestion: Do not induce vomiting. Drink several glasses of water or milk. Seek Medical Attention.

Section VII Spill, Disposal and Storage Methods

Accidental Spill: Immediately inform employees. Wear gloves, goggles and absorb spill with acid neutralizing absorbent. If not available, add baking soda to spill, followed with an absorbent material such as sand or paper towels. Clean spill with soap and water. Never use bleach or products containing chlorine or sodium hyposulfites.

Waste Disposal: All waste must be disposed in accordance to local, state, and federal regulations.

Storage: Store in original container or LDPP, HDPE or any plastic container. Do not store in metal containers. Corrosive to metals. Store at room temperature.

Section VIII Personal Protection and Handling

Ventilation: Work in well ventilated area.

Respiratory Protection: No special respiratory protection is recommended under anticipated normal use.

Eye Protection: Wear goggles or splash shield.

Protective Gloves: Wear latex gloves or impermeable protective gloves.

Other Protective Clothing or Equipment: Wear lab apron.

Hygienic Practices: Wash hands before meals or breaks.

State and Federal Regulations: This product contains a chemical known to the State of California to cause birth defects and other reproductive harm: Hydrochloric Acid.

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