

**MSDS - Material Safety Data Sheet****Product Name: Physical Developer, Solution B**

MSDS No.: PDS101B

**I. Basic Information:**

Manufacturer: Ace Fingerprint Equip. Labs

Address: PO Box 288

City, ST Zip: Wake Forest, NC 27588

Emergency Contact: Chemtrec

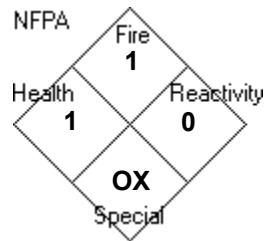
Emergency Telephone Number: 800-424-9300

Contact: TECH SUPPORT

Information Telephone Number: 800-426-7072

Last Update: 01/17/2011

Expiration Date:

Chemical State:  Liquid  Gas  SolidChemical Type:  Pure  Mixture

1	Health
1	Flammability
0	Reactivity
H	Pers. Protection

**II. Ingredients:** Trade Secret (N/D = Not Disclosed)

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
7783859	Ammonium iron (II) sulfate hexahydrate	<4.25							NE	NE	
5949291	Citric acid monohydrate	>1.25							NE	NE	212 F
	Detergent solutions	<1.0									
2016560	Dodecylamine acetate	<1.0							NE	NE	66 C
9016459	Ethoxylated nonyl phenol	<1.0							NE	NE	
7782618	Iron (III) nitrate nonahydrate	>1.75							NE	NE	47.2 C
7732185	Water (Distilled)	>92.7							None	None	212 F

**III. Hazardous Identification:**

Hazard Category:

 Acute Chronic Fire Pressure Reactive**Hazardous Identification Information:**

May be harmful if inhaled, ingested, or absorbed by the skin. Respiratory tract irritant. Skin irritant. Severe eye irritant.

The chemical, physical, and toxicological properties of ammonium iron (II) sulfate hexahydrate, iron (III) nitrate nonahydrate, and citric acid monohydrate have not been thoroughly investigated.

**IV. First Aid Measures:****Route(s) of Entry:**

Inhalation, ingestion, skin, eyes

**Health Hazards (Acute and Chronic):**

Chronic: Damage to tooth enamel, dermatitis

**Signs and Symptoms:**

Exposure: Vomiting, diarrhea

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### Medical Conditions Generally Aggravated by Exposure:

Skin, eye, respiratory diseases

### Emergency and First Aid Procedures:

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen (To be administered by qualified medical personnel only!) Get medical attention.

Ingestion: If victim is conscious and alert, wash out mouth with water. (Never give anything by mouth to an unconscious person!) Get medical attention immediately.

Skin: Flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing. Seek medical attention.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Do not allow victim to rub or keep eyes closed. Get medical aid immediately.

### Other Health Warnings:

### V. Fire Fighting Measures:

Flash Point: NE

Lower Explosive Limit: NE

Upper Explosive Limit: NE

### F.P. Method:

Fire Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, appropriate foam

### Special Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing.

### Unusual Fire and Explosion:

Oxidizer--contact with combustible materials may cause a fire.

### VI. Accidental Release Measures:

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

Wear vapor respirator, safety goggles, and rubber gloves. Remove sources of ignition (i.e. open flames, sparks). Soak up with inert absorbent material (do not use flammable substances such as sawdust). Ventilate and wash spill site after collection. Dispose according to local, state, and federal regulations.

### VII. Handling and Storage:

#### Precautions to be Taken:

Keep in tightly closed container. Air and light sensitive. Keep cool and dry. Avoid ignition sources (heat, open flame, spark). Avoid incompatible materials. Use only in well-ventilated areas. Avoid inhalation. Avoid contact with skin, eyes, and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

#### Other Precautions:

### VIII. Exposure Controls/Personal Protection:

#### Ventilation Requirements:

Use only in well-ventilated areas.

#### Personal Protective Equipment:

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Safety goggles, gloves, vapor respirator, protective clothing

### IX. Physical and Chemical Properties:

Boiling Point: ~212 F

Melting Point: ~32 F

Evaporation Rate (Butyl Acetate = 1): NE

Vapor Pressure (mm Hg.): NE

Specific Gravity (H<sub>2</sub>O = 1):

Vapor Density (AIR = 1): NE

Solubility In Water: Soluble

Appearance and Odor: Brownish yellow liquid

Other Information:

### X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Strong acids, air sensitive, light sensitive, strong oxidizing agents, bases, reducing agents, nitrates

Decomposition/By Products:

Ammonia, sulfur oxides, nitrogen oxides, carbon monoxide and dioxide

Hazardous Polymerization:

Has not been reported.

### XI. Toxicological Information:

See Hazards Identification Section (2).

### XII. Ecological Information:

Prevent from entering sewers or waterways. May be toxic to some aquatic life.

### XIII. Disposal Considerations:

Dispose according to local, state, and federal regulations.

### XIV. Transport Information:

IATA

Shipping name: Ferric nitrate solution

Hazard class: 5.1

UN no.: 1466

Packing group: III

### XV. Regulatory Information:

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***XVI. Other Information:***

Using this product under normal, properly instructed procedures should not be hazardous.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.