

# MATERIAL SAFETY DATA SHEET

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MSDS  
Effective Date: 1/02

EMERGENCY CONTACT: In the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals -- call CHEMTREC (800-424-9300)

## I. PRODUCT INFORMATION

**Product Name:** Compatibility Plus  
**Chemical Name:** Mixture\*  
**Chemical Family:** Organic Phosphate, Free Acid / Alcohol mixture  
**Formula:** Mixture CAS Number: None  
**DOT Hazard Class:** Not Regulated  
**DOT Proper Shipping Name:** Not Regulated by D.O.T., Freight Class: Adhesives, Adjuvants, Spreaders, or Stickers

## II. COMPONENT INFORMATION

<b>Hazardous Ingredients:</b>	<b>Percent</b>	<b>TLV (Units)</b>	<b>Hazard</b>
1) Organic Phosphate*	63%	None	Corrosive
2) Nonionic Surfactant*	< 3.5%	None	Mild eye/skin irritant
3) n-Butanol	7 – 11%	50 ppm (skin)	Flammable/irritant

\*Additional information will be provided in a medical emergency to qualified medical personnel.

## III. PHYSICAL DATA

### "Typical Values"

**APPEARANCE:** Clear, pale yellow liquid  
**ODOR:** Alcohol  
**SPECIFIC GRAVITY:** 1.04 (H<sub>2</sub>O=1)  
**FLASH POINT:** >200 °F  
**pH:** 2-3 @ 1%  
**WATER SOLUBILITY:** Complete  
**EVAPORATION RATE:** < 1 (ETHER=1)  
**BOILING POINT:** > 200°F

## IV. FIRE AND EXPLOSION INFORMATION

**FLASH POINT:** > 200 °F(PMCC)

**FLAMMABLE LIMITS:** Alcohol component: Lower: 1.4% Upper: 11.2%  
**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, dry chemical, water fog.

**SPECIAL FIRE FIGHTING PROCEDURES:**

A direct water stream can cause frothing. Wear a self-contained breathing apparatus to avoid toxic fumes and wear protective clothing to avoid contact.

**UNUSUAL FIRE OR EXPLOSIVE HAZARDS:**

Alcohol fumes are heavier than air and can travel along the ground and ignite at a distant source.

**V. REACTIVITY DATA**

**STABILITY:** Stable

**INCOMPATIBILITY (Materials to Avoid):** Strong oxidizers and strong alkalis.

**HAZARD DECOMPOSITION:**

Thermal decomposition can produce acrid fumes and oxides of phosphorus and carbon.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**VI. HEALTH HAZARD DATA****EYES:**

Product is a severe irritant and is corrosive if not washed out immediately.

**SKIN:**

Moderate to severe irritation is likely on short exposure. Burns are possible on prolonged exposure.

**INHALATION:**

Exposure to a spray or mist containing the product can cause respiratory irritation and mucous membrane damage.

**INGESTION:**

Product's main effect would be damage to the tissue of the gastrointestinal tract. Symptoms such as abdominal pain, bloody stools, nausea and diarrhea are possible.

**ACUTE OVEREXPOSURE:** Corrosive to the exposed areas.

**CHRONIC OVEREXPOSURE:** No data is available for the product.

**TOXICITY DATA:****EYE CONTACT:** A PRIMARY ROUTE OF ENTRY.

- 1) Organic Phosphate - Similar products are corrosive. No specific data is available for this product.
- 2) Nonionic Surfactant - Rabbits: Similar products have shown severe irritation when 0.1 ml was placed into the eyes.
- 3) n-Butanol - Human: 50 ppm causes eye irritation.

**SKIN CONTACT:** A PRIMARY ROUTE OF ENTRY.

- 1) Similar products are corrosive on prolonged exposure. Irritation on short exposure could range from mild to moderate.
- 2) Rabbits, humans: mild irritation; dermal LD50: 2-3 g/kg (rabbits).
- 3) Rabbit: 500 mg/24 hrs. Moderate skin irritation.

**INHALATION:**

Breathing sprays or mists containing the product can be irritating and corrosive to the nasal passages and respiratory tract.

**INGESTION:**

- 1) No data is available for this product, but similar products have low to moderate toxicity, especially if neutralized.
- 2) Rat LD50: 2-3 g/kg range (moderate to low toxicity).
- 3) Rat LD50: 790 mg/kg.

**SPECIAL PRECAUTIONS:**

Individuals with diseases of the skin should not be exposed to this product. Avoid getting product in eyes or on skin. Avoid breathing sprays or mists containing the product.

**VII. EMERGENCY AND FIRST AID PROCEDURES**

**EYES:**

Flush eyes with running water for at least 15 minutes, lifting the upper and lower eyelids occasionally. Get medical attention to check for corneal damage.

**SKIN:**

Wash with soap and water. Launder any contaminated clothing. See a doctor if irritation develops.

**INHALATION:**

Move to fresh air. See a doctor if breathing is difficult.

**INGESTION:**

Do not induce vomiting unless advised by medical personnel or physician! Give 1 or 2 glasses of milk or water to dilute the ingested material and get immediate medical attention.

**VIII. SPILL OR LEAK PROCEDURES**

**CLEAN-UP PROCEDURES:**

- Stop flow and contain spill by diking, sand bags, etc.
- Eliminate all ignition sources.
- Absorb on inert material scrape up or shovel into drums.
- Neutralize
- Observe federal spill and water quality regulations
- Respiratory Protection (as per Section VIII).
- Skin Protection (as per Section VIII).

**DISPOSAL PROCEDURES:**

- Incinerate using afterburner and scrubber
- Send to hazardous waste facility

**IX. SPECIAL PROTECTION INFORMATION**

<b>AIR EXPOSURE RECOMMENDATIONS</b>	<b>GAS, FUMES, MISTS</b>		<b>SPECIAL THERMAL SPRAY APPLICATIONS</b>
	<b>NORMAL USE</b>	<b>EXCEED TLV</b>	
General ventilation	OK	Not recommended	Not recommended
Local Exhaust	OK	Not recommended	Not recommended
Respiratory Protection (Code 1-4)	1	3 or 4	3 or 4

Codes for Respiratory Protection:

1. None needed
2. Particle removing, air purifying respirator (dust mask)

3. Gas and vapor-removing, air purifying respirator (Canister)
4. Full face, positive pressure-demand type (air supplied)

**EYES:**

OSHA-approved safety goggles and/or face shield.

**PROTECTIVE GLOVES:**

Impervious, acid resistant gloves

**OTHER:**

Acid resistant apron, shoes. Make sure an eyewash fountain and safety shower are available in the work area.

## **X. STORAGE AND HANDLING PROCEDURES**

**HANDLING AND STORAGE PRECAUTIONS:**

Wear eye and skin protection. Store in a well-ventilated area, away from possible sources of ignition. Keep containers closed when not in use. Do not store in unlined metal containers. Empty containers may still contain hazardous residues; properly dispose of containers when empty.

## **XI. TRANSPORTATION REQUIREMENTS**

**DOT SHIPPING DESCRIPTION:**

Not Regulated by D.O.T., Freight Class: Adhesives, Adjuvants, Spreaders, or Stickers

## **XII. MISCELLANEOUS**

Product is RCRA regulated due to low pH.

All ingredients are listed in the TSCA inventory.

**ENVIRONMENTAL EFFECTS:**

Product would be toxic to aquatic life due to its low pH. No specific numbers are available.

**SARA CLASSIFICATION FOR PRODUCT:** Acute hazard, fire hazard.

**COMMENTS:** Caution all employees to wear proper protection when working with this product.

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