

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

Hazardous Ingredients:	Percent	TLV (Units)	Hazard
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 (H₂O=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, CO₂, 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

AIR EXPOSURE RECOMMENDATIONS	GAS, FUMES, MISTS		SPECIAL THERMAL SPRAY APPLICATIONS
	NORMAL USE	EXCEED TLV	
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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