

## Ransom &amp; Randolph

## 1. Product and Company Identification

<i>Product Name</i> Victawet® 12 wetting agent	<i>MSDS Code Number</i> 005
<i>Trade Name &amp; Synonyms</i> Phosphoric acid, mono (2-ethylhexyl) ester, polymer with oxirane	<i>Date of Last Revision</i> 06/2008
<i>Chemical Name</i> BIS (Polyoxyethylene), 2-Ethylhexyl phosphate	<i>Manufacturer</i> Ransom & Randolph
<i>C.A.S. Number</i>	<i>Address</i> 3535 Briarfield Blvd, Maumee, OH 43537
<i>Grades or Minor Variant Identities</i>	<i>Information Telephone Number</i> 419/865-9497 FAX 419/865-9997
<i>Product Use</i>	<i>Emergency Telephone Number</i> 419/865-9497

## 2. Composition of Ingredients

<i>Hazardous Components</i>	<i>C.A.S. Number</i>	<i>%</i>
Phosphoric acid, mono (2-ethylhexyl) ester, polymer with oxirane	68460-10-6	100

## 3. Hazardous Identification

*Emergency Overview*

Causes eye irritation. May cause skin and respiratory tract irritation.

<i>Routes of Exposure</i>	<i>Signs &amp; Symptoms</i>	<i>Single, Repeated, or Lifetime Exposure</i>	<i>Severity (Mild, Moderate, Severe)</i>	<i>Acute and Chronic Health Effect(s)</i>	<i>Target Organ(s)</i>
<i>Eye</i>				Severe irritator.	
<i>Skin</i>				Irritation.	
<i>Inhalation</i>				Irritating to mucous membranes.	
<i>Ingestion</i>				Irritation, vomiting digestive tract, and diarrhea.	
<i>Other</i>					

*Medical Conditions Aggravated by Exposure*

There are no data available that addresses medical conditions that are generally recognized as being aggravated by exposure to this product.

*Carcinogenicity (IARC, NTP)*

IARC: No

NTP: No

*Potential Environmental Effects*

#### 4. First Aid Measures

<i>Routes of Exposure</i>	<i>First Aid Instructions</i>	<i>Immediate Medical Attention</i>	<i>Delayed Effects</i>
<i>Eye</i>	Immediately flush eyes with large quantities of running water for a minimum of 15 minutes. If the victim is wearing contact lenses, remove them. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water. Do not let victim rub eye(s). Do not attempt to neutralize with chemical agents. Oils or ointments should not be used at this time.	Get medical attention immediately	
<i>Skin</i>	Immediately remove contaminated clothing and shoes. Wash skin with soap and plenty of water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Get medical attention. Wash contaminated clothing before reuse. Thoroughly clean or destroy contaminated shoes.	Get medical attention.	
<i>Inhalation</i>	Remove victim to fresh air. If respiratory irritation occurs or if breathing is difficult, get medical attention. Maintain airway and administer oxygen if available.	Get medical attention immediately.	
<i>Ingestion</i>	Call a physician or a poison control center immediately. Give victim plenty of water to drink. Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious or convulsing person. Get medical attention immediately.	Call a physician or a poison control center immediately.	
<i>Other</i>			

***Note to Physicians (Treatment, Testing, and Monitoring)***

Attending physician should treat exposed patients symptomatically. Chemical burns on the skin should be treated as thermal burns. Flush eyes with buffered or plain irrigating solutions. If any ulceration or conjunctival injury is present, have an ophthalmologist examine the patient.

### 5. Fire and Explosion Data

<i>Flashpoint: (Method)</i>	<i>Flammable (Explosive) Limits in Air</i>		<i>Autoignition Temperature:</i>	<i>Other</i>
	LEL: No	UEL: No		
<i>Flame Propagation or Burning Rate (for solids):</i>	<i>Properties Contributing to Fire Intensity</i>	<i>Flammability Classification NFPA Rating:</i> 1		
<i>Extinguishing Media</i> Water, foam, dry powder, carbon dioxide		<i>Extinguishing Media to Avoid</i>		

***Protection and Procedures for Firefighters:***

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate non-essential personnel from the fire area. Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. If possible, move containers from the fire area. If not leaking, keep fire exposed containers cool with a water fog or spray to prevent rupture due to excessive heat. High pressure water may spread product from broken containers increasing contamination or fire hazard.

***Unusual Fire and Explosion Hazards:***

This product is not defined as flammable or combustible. However, it may decompose under fire conditions to give off toxic materials such as phosphorus oxides and flammable organic substituents. The product is self-extinguishing once the source of ignition is removed.

No other explosion hazards of this product are known.

Under fire conditions, this product may support combustion and decompose to give off flammable alkene and phosphoric oxides as well as carbon oxides. The product is self-extinguishing once the source of ignition is removed. It is not sensitive to static discharge.

### 6. Accidental Release Measures

***Containment Techniques***

***Spill/Leak Clean-Up Procedures and Equipment***

Stop source of spill. Dike area to prevent spill from spreading. Soak up liquid with a suitable absorbent such as clay, sawdust, or kitty litter. Sweep up absorbed material and place in a chemical waste container for disposal. CAUTION! The spill area may be slippery.

***Evacuation Procedures***

***Special Instructions***

***Reporting Requirements***

## 7. Handling and Storage

### *Handling Practices and Warnings*

Keep away from heat, sparks and open flames. Avoid contact with eyes and skin. Avoid inhalation of vapors and mists. Personnel handling this product should wash thoroughly after contact with this product.

### *Storage Practices and Warnings*

Store away from foodstuffs or animal feed. Containers should be stored in a cool, dry, well-ventilated area away from flammable or incompatible materials and sources of heat or flame. Exercise due caution to prevent damage to or leakage from the container.

To prevent acid build-up, do not store the product at temperatures above 120F (49C).

## 8. Exposure Controls/Personal Protection

### *Ventilation*

#### *Other Engineering Controls*

At elevated processing temperatures, or in the event that use conditions generate airborne vapor, aerosol or mist, the material should be handled in a well-ventilated area.

Where adequate ventilation is not available, use a NIOSH-approved filter to reduce exposure. Where exposure potential under use conditions is greater, use a NIOSH-approved, positive-pressure air-supplied respirator.

NIOSH-approved organic vapor/acid gas respirator (OVAG) with dust, mist, and fume filters to reduce potential for inhalation exposure if use conditions generate vapor, mist, or aerosol and adequate ventilation (e.g., outdoor or well ventilated area) is not available. Where exposure potential necessitates a higher level of protection (e.g., if breakthrough resulting in dizziness or numbness is experience) use a NIOSH-approved, positive-pressure pressure demand, air-supplied respirator.

Respirator cartridges or canisters must be changed frequently (following each use or at the end of the work shift) to assure breakthrough exposure does not occur.

### *Routes of Entry:*

#### *Personal Protective Equipment (PPE) for Normal Use:*

#### *PPE for Emergencies:*

### *Eye/Face*

Wear safety glasses or chemical goggles during handling to avoid eye contact.

### *Skin*

Skin contact with liquid or its aerosol must be prevented through the use of permeation resistant clothing, gloves and footwear. Unprotected skin exposed to vapor, aerosol or mist must be thoroughly washed before eating, drinking, smoking and at the end of the workshift.

### *Inhalation*

### *General Hygiene Considerations and Work Practices*

#### *Other Protective Measures and Equipment*

Safety showers, with quick opening valves which stay open, and eye wash fountains, or other means of washing the eyes with a gentle flow of cool to tepid tap water, should be readily available in all areas where this material is handled or stored. Water should be supplied through insulated and heat-traced lines to prevent freeze-ups in cold weather. Long sleeved clothing may be used to minimize skin contact.

### 9. Physical and Chemical Characteristics

<i>Appearance</i> Slightly hazy liquid		<i>Odor</i> Mild
<i>Normal Physical State:</i> X <i>Liquid</i> <i>Gas</i>  <i>Solid</i>		<i>Boiling Point</i> 325°F (163°C) <i>Melting Point</i> ND <i>Freezing Point</i> ND
<i>Specific Gravity or Density (H<sub>2</sub>O=1)</i> 1.120 @ 25C	<i>Solubility in Water</i> 7 Ug/ml	<i>pH</i> ND
<i>Vapor Pressure (mm Hg.)</i> 0.02 mm Hg @ 20C (68F)	<i>Vapor Density (AIR = 1)</i> ND	<i>Evaporation Rate (Butyl Acetate=1)</i> ND
<i>Other</i> Viscosity = 440 SUS @ 100F (38C).		

### 10. Stability and Reactivity

<i>Incompatibility (Materials to Avoid)</i> This product is incompatible with strong oxidizers, strong acids and strong alkalis. It hydrolyzes slowly at ambient temperatures in acidic or alkaline aqueous solutions.			
<i>Hazardous Products Produced During Decomposition</i> Under fire conditions the product supports combustion and decomposes to give off toxic materials such as phosphorus oxides and oxides of carbon.			
<i>Hazardous Polymerization?</i>	<i>May Occur</i>	<i>May Not Occur</i> X	<i>Conditions to Avoid</i> Under wet alkaline or acidic conditions, prolonged storage at elevated temperatures should be avoided.
<i>Stability?</i>	<i>Stable</i> X	<i>Unstable</i>	<i>Conditions to Avoid</i>

## 11. Toxicological Information

### *Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data*

Inhalation -- Inhalation toxicity data are not available for this product. However, inhalation may be expected to cause irritation to the upper respiratory system.

Inhalation Chronic Exposure – There is no specific information available for this product. However, overexposure may cause irritation of the nose, throat and upper respiratory tract.

#### Toxicological – Dermal

Dermal toxicity data is not available for this product. However, skin contact, especially if prolonged or repeated, may cause moderate to severe irritation.

#### Skin Contact – CHRONIC

Skin contact may cause severe irritation. Prolonged or repeated contact may cause defatting of the skin with drying and cracking.

#### Toxicological – Eye

The acute eye effects of this product have not been determined. However, eye contact is expected to cause severe irritation or possibly burns.

#### Toxicological – Ingestion

The acute oral LD50 (rate) is > 4640 mg/kg.

#### Ingestion – CHRONIC

Chronic ingestion effects of this product are not known. However, ingestion can result in severe irritation or burns of the mouth, throat, esophagus and stomach.

#### CARCINOGENICITY MUTAGENICITY

The carcinogenic/mutagenic properties of this product are not known.

#### REPRODUCTIVE EFFECTS

The reproductive toxicity of this product is not known.

#### NEUROTOXICITY

The neurotoxic effects of this product are not known.

#### Other Toxicological Effects

The primary routes of exposure to ETHYLENE OXIDE are inhalation and skin contact. This material is an irritant to mucous membranes and corrosive to skin and eyes. It is a skin sensitizer. Ethylene oxide is toxic by ingestion, moderately toxic by inhalation. Poisoning may affect the liver, kidneys, blood, and reproductive system. It is a central nervous system depressant. Poisoning may produce vomiting, recurring periodically for hours. Poisoning may produce vomiting, recurring periodically for hours, accompanied by nausea and headache. Delayed central nervous systems symptoms may occur with dyspnea, cyanosis, drowsiness, weakness, incoordination, disorientation and unconsciousness. Ethylene oxide has been classified as a carcinogen by the Occupational Safety and Health Administration (OSHA).

## 12. Ecological Information

### *Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements*

No ecotoxicity data is available. This product is not expected to present an environmental hazard.

## 13. Disposal Considerations

### *Regulations*

#### Waste Disposal

Material that cannot be used or chemically reprocessed, should be disposed of in accordance with all applicable regulations. Product containers designed for single use should be thoroughly emptied before disposal.

NOTE! State and local regulations may be more stringent than federal.

#### Container Disposal

Containers should be drained of residual product before disposal. Empty containers should be disposed of in accordance with all applicable laws and regulations.

### *Properties (Physical/Chemical) Affecting Disposal*

## 14. Transport Information

### *Regulated for shipping?*

Yes No X

### *Proper Shipping Name*

Washing compound

### *Packing Group*

N/A

### *Do changes in quality, packaging, or shipment method change product classification?*

Yes No X

### *Hazard Class*

N/A

### *Identification Number*

N/A

### *Other*

## 15. Regulatory Information

*Federal Regulations EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA Inventory.*

### *International Regulations*

Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL).

Canadian WHMIS Classification: Class D Division 2B

### *Other*

## 16. Other Information

<b>NFPA Hazard Rating</b>	<b>Health:</b> 3	<b>Flammability:</b> 1	<b>Reactivity:</b> 0
<b>HMIS Hazard Rating</b>	<b>Health:</b> 2	<b>Flammability:</b> 1	<b>Reactivity:</b> 0
<b>Personal Protection:</b>			

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