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Material Safety Data Sheet

SPI #02470-RA and 02470-AB Victawet® 35B Non-Foaming, Anionic Wetting Agent

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Section 01 Identification

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Date Effective........ January 8, 2009
                       (most recent revision)

Synonyms..............
Phosphoric acid, 2-ethylhexyl ester, sodium salt
Product Use:  Surfactant/wetting agent

Chemical family....... Salt of alkyl acid phosphate

Chemical formula...... Mixture


Emergencies
                       Contacting CHEMTREC 24 Hour Emergency
Use Only #'s.......... Worldwide phone : 1-(703)-527-3887
                       Worldwide FAX   : 1-(703)-741-6090
                       Toll-free phone : 1-(800)-424-9300


Product or Trade Name.... Victawet 35B

CAS #:     68334-32-7  Polyphosphoric acids, 2-ethylhexyl esters, sodium salts
           141-65-1    Phosphoric acid, bis(2-ethylhexyl)ester, sodium salt
           7732-18-54  Water

Chemical Formula......... Mixture

Product Use.............. Surfactant/wetting agent
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Hazardous Material Information System USA	**Health**	**2**	**National Fire Protection Association USA**	
	Fire Hazard	**1**		
	Reactivity	**0**		
	Personal Protection			

Personal Protection

NFPA Ratings:
Health: 2 Flammability: 1 Reactivity: 0 Other: No Data

HMIS Ratings:
Health: 3 Flammability: 1 Reactivity: 0 Other: No Data

Section 2 Composition/Information on Ingredients

Substance Description	%	CAS#	EC#
Polyphosphoric acids, 2-ethylhexyl) esters, sodium salts	10-25	68334-32-7	269-823-2
Phosphoric acid, bis(2-ethylhexyl) ester, sodium salt	5-10	141-65-1	205-493-8
Water	20-25	7732-18-5	231-791-2

Section 3: Hazard Identification

Appearance and Odor:
Light tan colored paste.

Statement of Hazards
Warning!
Causes eye irritation.
May cause eue and respiratory tract irritation.

Avoid Contact with Skin or Clothing
Avoid breathing vapor, mist, aerosol, or fumes
Keep container tightly closed
Use with adequate ventilation
Wash thoroughly after handling

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.

Primary Route of Exposure
Skin contact, eye contact and inhalation are the primary routes of exposure to this product.

Inhalation Acute Exposure
Inhalation of fumes or vapors is irritating to the upper respiratory system.

Skin Contact - ACUTE

Skin contact may cause severe irritation.

Eye Contact - ACUTE

Eye contact may cause mild irritation.

Ingestion - ACUTE

Irritation to the mouth, throat, esophagus and stomach may be caused by ingestion of this material.

Carcinogenicity:

IARC: No
NTP: No
OSHA: No
AGCIH: No

Section 4: First Aid Measures

Inhalation First Aid

If inhaled, remove victim to fresh air. If not breathing, give artificial respiratory. If breathing becomes difficult, give oxygen and get medical attention.

Skin Contact - First Aid

Immediately remove contaminated clothing and shoes. Flush skin with plenty of soap and water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Get medical attention immediately. Wash contaminated clothing before reuse. Thoroughly clean or destroy contaminated shoes.

Eye Contact - First Aid

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 the victim rub eyes(s). Do not attempt to neutralize with chemical agents. Oils or ointments should not be used at this time. Get medical attention if eye irritation occurs.

Ingestion - First Aid

Get medical attention by calling a physician or a poison control center immediately. Give victim plenty of water to drink. Do not induce vomiting unless directed to do so as directed by medical personnel. Never give anything by mouth to an unconscious or convulsing person. If vomiting occurs, keep head below hips to reduce risk of aspiration. Get medical attention immediately.

Medical Conditions Aggravated

Persons with pre-existing skin disease may be at an increased risk if exposed dermally to this material.

Note to Physician

Attending physician should treat exposed patients symptomatically.

Section 5: Fire Fighting Measures

Flash Point

93°C (199.4°F) Cleveland Open Cup

Auto Ignition Temperature:
No data available

Upper Explosion Limit:
No data available

Lower Explosion Limit:
No data available

Extinguishing Media
Use water fog, dry powder, foam or carbon dioxide extinguishing agents.

Fire Fighting Procedures:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate non-essential personnel from the fire area. Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

Contaminated buildings, areas and equipment must not be used until they are properly decontaminated. Dike fire water for later disposal. Do not allow contaminated water to enter waterways.

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 phosphorous oxides and flammable organic substituents. The product is self- extinguishing once the source of ignition is removed.

Other Fire and Explosion Hazards
No other explosion hazards of this product are known.

Hazardous Products/Combustion
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.

Section 6: Accidental Release Measures

Personnel-related safety precautions:
Restrict nonessential personnel. Follow appropriate industrial hygiene practices as outlined in Section 8.

Clean up:
Stop source of spill. Dike area to prevent spill from spreading. Soak up liquid with 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. With a stiff brush, work a slurry of powdered household

detergent and water into surface, including all cracks and crevices. After allowing to stand for 2-3 minutes, flush with water. Dike the water for later disposal. Do not allow contaminated water to enter waterways or sewers.

Section 7: Handling and Storage

Handling:

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

Storage:

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 49°C (120°F). This product is normally shipped in polyethylene lined fiber cartons.

Maximum Storage Temperature:

48.88°C (120°F)

General comments:

Containers should not be opened until ready for use.

Section 8: Exposure Controls and Personal Protection

Engineering Controls:

Safety shower and eye wash station must be available to work area.

Respiratory Protection:

Use a 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 use a NIOSH-approved, positive-pressure, pressure demand, air-supplied respirator.

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

Skin Protection:

Skin contact with this product should be prevented through the use of suitable protective clothing, gloves, and footwear selected with regard for the use condition exposure potential.

Eye Protection:

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

Ventilation Protection:

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 organic vapor/acid gas (OVAG) respirator with dust, mist, and fume filter to reduce exposure. Where exposure potential under use conditions is greater, use a NIOSH-approved, positive-pressure air-supplied respirator.

Other Protection:

During the development of safe handling procedures, consideration should be given to the need for cleaning of equipment and piping systems to render them nonhazardous before maintenance and repair activities are performed. Waste resulting from these procedures should be handled in an environmentally safe manner.

Applicable Exposure Limits:

Other than any exposure limits which may be displayed in Section 8, there are no exposure limits applicable for this product or its components.

CAS#68334-32-7: no data from OSHA, ACGIH, NIOSH.
CAS# 141-65-1: no data from OSHA, ACGIH, NIOSH.

Section 9: Physical and Chemical Properties

Vapor pressure (mm Hg):	No data available
Vapor density (air=1):	No data available
Evaporation rate:	No data available
Volatile %:	No data available
Boiling point:	Not applicable
Odor threshold (ppm):	No data available
Specific gravity:	No data available
Bulk density:	9.7 pounds/gallon @ 25°C (77°F)
Solubility in water:	<1% @ 25°C (77°F)
Solubility in other solvents:	Not determined
Coefficient of oil/water:	No data available
Pour point:	No data available
Melting point:	No data available
pH factor:	7.2 (0.5% solution)
Cloud point:	No data available
Flash point:	93°C (199.4°F)
Flash method:	Cleveland Open Cup
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Auto ignition temperature:	No data available
Other:	Viscosity: > 100000 cps @ 38°C(100°F)

Section 10: Stability and Reactivity

Chemical Stability:

The product is stable at ambient temperatures and atmospheric pressures. It is not self-reactive and has an almost infinite shelf life under sealed conditions. It is not sensitive to physical impact or static discharge.

Loss of residual moisture will occur at temperatures above 100°C (212°F). The residue will emit a flammable alkene if heated to temperatures above 160°C (320°F).

Incompatibilities

This product is incompatible with strong oxidizers, strong acids, and strong alkalis. It hydrolyzes slowly at ambient temperatures in acidic or alkaline aqueous solutions.

Polymerization

Hazardous polymerization is not expected to occur.

Decomposition:

Under fire conditions the product supports combustion and decomposes to give off toxic materials such as phosphorous oxides and oxides of carbon.

Conditions to avoid:

Under wet alkaline or acidic condition, prolonged storage at elevated temperatures should be avoided.

See Section 7, "Storage".

Section 11: Toxicological Information

Toxicological - 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, over-exposure may cause irritation of the nose, throat and upper respiratory tract.

Toxicological - Dermal

LD50 (Dermal) >1000 mg/kg (rabbit)

However, skin contact, especially if prolonged or repeated, may cause moderate to severe irritation.

Skin Contact - Chronic

Skin contact may cause severe irritation.

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 (rats) is 3366 mg/kg (slightly toxic)

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. May cause vomiting, diarrhea, or abdominal pain.

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.

Target Organs:

Over-exposure to this product may effect the skin, eyes, and respiratory system.

Section 12: Ecological Information

Ecotoxicological Information:

The ecological toxicity of this product is not known.

Distribution:

Other ecological information on this product is not known.

Chemical Fate:

Chemical fate information on this product is not known.

Section 13: Disposal Considerations

Material that can not be used or chemically reprocessed should be disposed of in accordance with all applicable regulations. Product containers and/or bottles should be thorough emptied before disposal.

NOTE: State and local regulations as well as those in other countries might be more stringent than USA federal regulations.

Container Disposal:

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

If unused, this product does not meet the EPA's criteria as either a listed or a characteristic hazardous waste under the RCRA as published in 40 CFR 261.

Section 14: Transport Information

Shipping Description

DOT Regulations:

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          Proper shipping name: Corrosive liquid, Acidic, Organic, N.O.S.
               (Phosphoric acid, mono(2-ethylhexyl)ester
          Hazard Class: 8
          Identification number: UN3265
          Packing Group: III
          Label: 8
          Remarks: This product does not contain an environmentally hazardous
               substance as per 49 CFR 172.101, Appendix A

     IATA:
          Proper shipping name: Corrosive liquid, Acidic, Organic, N.O.S.
                                Phosphoric acid, mono(2-ethylhexyl)ester
          Hazard Class: 8
          Identification number: UN3265
          Packing Group: III
          Label: 8
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Section 15: Regulatory Information

SARA:

Section 355: None of the ingredients in this product is listed.

Section 313: None of the ingredients in this product is listed as a toxic chemical subject to the reporting requirements of Section 313 of Title III of the SARA Act of 1986 and 40 CFR 372.

SARA Title III: Section 304 - CERCLA: None of the ingredients in this product is regulated under Section 304 for emergency release notification.

TSCA: This substance is listed on the TSCA inventory.

TSCA Section 12b: This product does not contain any chemicals subject to Section 12(b) notification.

OSHA: This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

RCRA: This product is not considered to be a hazardous waste under RCRA (40 CFR 261).

California Prop. 65:
Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a warning statement if the product contains ingredients for which the State has found to cause cancer, birth defects or other reproductive harm. If this product contains an ingredient listed by the State of California to cause cancer or reproductive toxicity, it will be listed below:

No such components exist in this product.

European Community
European Labeling in Accordance with EC Directives

Hazard Symbols: Xn, C Harmful, Corrosive

Risk Phrases:
R20 Harmful by inhalation
R21 Harmful in contact with skin

R22 Harmful if swallowed
R34 Causes burns
R36 Irritating to eyes
R37 Irritating to respiratory system
R38 Irritating to skin
R41 Risk of serious damage to eyes

Safety Phrases:
S 2 Keep out of the reach of children
S13 Keep away from food, drink and animal feeding stuffs
S20/21 When using do not eat, drink or smoke
S24 Avoid contact with skin
S25 Avoid contact with eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27 Take off immediately all contaminated clothing.
S28 After contact with skin, wash immediately with plenty of Soap and water and seek medical advice.
S29 Do not empty into drains
S36 Wear suitable protective clothing
S37 Wear suitable gloves
S39 Wear eye/face protection

CANADA:
WHMIS: This product has a WHMIS Classification of D2B; E

DSL/NDSL:
CAS# 141-65-1 is listed on the DSL List.
CAS# 141-65-1 is not listed on the NDSL List.
CAS# 1732-18-5 is listed on the DSL List.
CAS# 1732-18-5 is not listed on the NDSL List.
CAS# 68334-32-7 is not listed on the DSL List.
CAS# 68334-32-7 is listed on the NDSL List.

Section 16: Other Information

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty c oncerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

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To Place an Order or Request a Quote

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