### MATERIAL SAFETY DATA SHEET

DATE PRINTED: 2/16/2005

MSDS NO. 16-084437

PHOSFLEX 370

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME PHOSFLEX 370

CHEMICAL NAME Alkyldiaryl and triaryl phosphate ester

SYNONYM None Available CHEMICAL FORMULA

Mixture

CAS # MIXTURE CHEMICAL FAMILY

Alkyldiaryl and triaryl phosphate ester

PRODUCT/TECHNICAL INFORMATION 1-914-269-5900

MANUFACTURERS NAME Supresta LLC

Ardsley, NY 10502

ADDRESS 420 Saw Mill River Road MEDICAL/HANDLING EMERGENCY PROSAR 1-888-875-1685

COUNTRY USA

TRANSPORTATION EMERGENCY CHEMTREC 1-800-424-9300

PRODUCT USE Flame retardant plasticizer

REVISION DATE 2/04/2005

ISSUE DATE 3/27/1995 REVISION NO.

006

PERCENT

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION

CAS#

Triphenyl phosphate Butylated triphenyl phosphate mixture Isodecyl diphenyl phosphate Diisodecyl Diphenyl Phosphates

30.000- 38.500 115-86-6 \*\* 39.000- 46.000 MIXTURE 17.500- 22.500 29761-21-5 0.500- 2.000 51363-64-5

\*\* SUBSTANCE IS A COMPOUND AND/OR MIXTURE

SECTION 3. HAZARDS IDENTIFICATION

Appearance & Odor Clear, transparent liquid; essentially odorless.

STATEMENT OF HAZARDS
CAUTION! May cause skin, eye, and respiratory tract irritation
May be harmful if swallowed
Inhalation of vapors or mists may be harmful
May cause cholinesterase inhibition
May be harmful to the liver and adrenal glands based on animal data.

Fire & 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
The primary routes of exposure to this product are skin contact and inhalation of mists or vapors.

MARKETED BY HARWICK STANDARD DISTRIBUTION CORPORATION 60 S. Seiberling Street • Akron, Ohio 44305

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SECTION 3. HAZARDS IDENTIFICATION (CONTINUED)

Inhalation Acute Exposure
Inhalation of vapors or mists may cause respiratory tract
irritation. Triphenyl phosphate, an ingredient in this product, can
cause cholinesterase inhibition and can affect the neuromuscular
system (see Section 4 "Note to Physicians" for signs and symptoms of
these effects).

Skin Contact - ACUTE
Skin contact is not expected to cause irritation. There is no indication that the material is absorbed through the skin.

Eye contact - ACUTE
Eye contact is not expected to cause irritation.

Ingestion - ACUTE
Ingestion may result in nausea and/or vomiting. May cause irritation to the gastrointestional system. Cholinesterase inhibition can be caused by triphenyl phosphate, a major component in this product.

CARCINOGENICITY
IARC ...NO OSHA ...NO
NTP ...NO ACGIH ...NO

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SECTION 4. FIRST AID MEASURES

Remove to fresh air. If not breathing, clear victim's airway and start artificial respiration. If victim is breathing, supplemental oxygen may be given from a demand-type or continuous-flow inhaler, preferably with a physician's advice. Get medical attention immediately. Inhalation First Aid

Skin Contact - First Aid
IMMEDIATELY remove and discard contaminated clothing and shoes.
Under a safety shower, wash all affected areas with plenty of soap and water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Obtain medical attention immediately.

Eye Contact - First Aid
IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Do not attempt to neutralize the material, and do not apply ointments or oils to the eyes at this time. Get medical attention immediately.

Ingestion - First Aid
Get medical attention by calling a physician or a poison control center immediately. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head below hips to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.

Medical conditions aggravated Persons with pre-existing neuromuscular disorders may be at an increased risk from exposure to this material.

Product is an organophosphorus mixture containing triphenyl phosphate, a known cholinesterase inhibitor in humans. In animal tests, hens orally administered large doses of the product, showed a significant inhibition of plasma cholinesterase, but no inhibition of brain cholinesterase.

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SECTION 4. FIRST AID MEASURES (CONTINUED)

Symptoms of cholinesterase inhibition in humans may include sweating, salivation, headache, nausea, muscle twitching, tremors, incoordination, blurred vision, tears, abdominal cramps, diarrhea and/or chest discomfort. Severe cholinesterase inhibition may lead to convulsions, pulmonary edema, respiratory failure and death. If cholinesterase inhibition is suspected, atropine by injection is antidotal. Protopam chloride (2-PAM) is also antidotal when administered early and in conjunction with atropine.

Triphenyl phosphate exposure may also produce neuromuscular dysfunction (neurotoxicity). Signs and symptoms of neurotoxicity may include weakness, numbness and tingling sensation in the hands and feet, muscle cramps, and loss of motor function.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT

460.00 F 237.77 C

FLASH METHOD Cleveland Open Cup

AUTO IGNITION TEMPERATURE N/D F N/D C

UPPER EXPLOSION LIMIT N/D

LOWER EXPLOSION LIMIT

Extinguishing Media
Use water fog or spray, dry chemical, 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. 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.

Dike fire control water for later disposal. Do not allow contaminated water to enter waterways.

Fire & 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.

Other Fire + Explosion Hazards No other fire or explosion hazards of this product are known.

Hazardous Products/Combustion
Decomposition of this product under fire conditions will produce toxic and corrosive oxides of phosphorus and toxic oxides of carbon.

NFPA HEALTH RATING 2

NFPA FLAMMABILITY RATING

1

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SECTION 5. FIRE FIGHTING MEASURES (CONTINUED)

NFPA REACTIVITY RATING

NFPA OTHER

SECTION 6. ACCIDENTAL RELEASE MEASURES

Cleanup
Isolate spill area and restrict nonessential personnel. All
personnel involved in spill cleanup should follow appropriate
industrial hygiene practices (see Section 8).

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! Spill area may be slippery. Cover spill area with a slurry of powdered household detergent and water. Use stiff brush to work slurry into cracks and crevices. Allow to stand for 2-3 minutes, then flush with water. Dike wash water for later disposal. Do not allow contaminated water to enter waterways or sewers.

SECTION 7. HANDLING AND STORAGE

Handling
Wear protective clothing including a face shield and goggles or similar protection when handling this product to avoid eye and skin contact. Wash thoroughly after handling.

Emptied container may retain product residues. Follow all warnings and precautions even after container is emptied.

Containers should be located in an area where they can be rotated regularly (first in, first out) and visually inspected for dents and bulging on a weekly basis. If bulged drums are found, they should be vented in an open area by removing the two-inch bung very slowly.

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

Prolonged storage at elevated temperatures under wet alkaline or acidic conditions should be avoided to assure product integrity. Care should be taken to prevent moisture condensation in the container. Carbon steel is the preferred material of construction for storage containers. The product is normally shipped in unlined tank cars, trucks and drums.

MAXIMUM STORAGE TEMPERATURE 149.00 F 65.00 C

General Comments
At temperatures below 4.4 C (40 F), the viscosity characteristics are such that improved pumping rates may be achieved by warming. Temperatures from 27-37.8 C (80-100 F) provide good rates of flow.

This product can be stored and transported in equipment constructed of mild steel.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 (e.g., if breakthrough resulting in dizziness or numbness is experienced) 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 workshift) to assure breakthrough exposure does not occur.

Skin Protection Skin contact with the liquid or its aerosol must be prevented through the use of suitable protective clothing, gloves, and footwear selected with regard for use condition exposure potential. Combination neoprene over natural latex gloves are recommended.

Eye contact with liquid or aerosol must be prevented through the use of chemical safety goggles or a face shield selected with regard for use condition exposure potential.

Eye wash fountains or other means of washing the eyes with a gentle flow of water should be readily available in all areas where this product is handled or stored. Water should be supplied through insulated and/or heat-traced pipes to prevent freeze-up in winter.

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
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.

APPLICABLE EXPOSURE LIMITS Other than any exposure limits which may be displayed in Section 8, there are no other known exposure limits applicable to this product or its components.

EXPOSURE LIMITS/REGULATORY INFORMATION (IN MG/M3)

SUBSTANCE DESCRIPTION REG. AGCY

PEL

TLV

TWA STEL CEIL

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED) (CONTINUED)

# EXPOSURE LIMITS/REGULATORY INFORMATION (IN MG/M3)

SUBSTANCE	DESCRIPTION	REG. AGCY	PEL	TLV	TWA	STEL	CEIL
Triphenyl	phosphate						
	•	OSHA	3.0000	N/D	N/D	N/D	N/D
		ACGIH	N/D	3.0000	N/D	N/D	N/D
		NIOSH	N/D	N/D	3.0000	N/D	N/D
		SUPPLIER	N/D	N/D	N/D	N/D	N/D
Butylated	triphenyl phosp	hate mixture					
		OSHA	N/D	N/D	N/D	N/D	N/D
		ACGIH	N/D	N/D	N/D	N/D	N/D
		NIOSH	N/D	N/D	N/D	N/D	N/D
		SUPPLIER	N/D	N/D	N/D	N/D	N/D
Isodecyl	diphenyl phospha	te					
		OSHA	N/D	N/D	N/D	N/D	N/D
		ACGIH	N/D	N/D	N/D	N/D	N/D
		NIOSH	N/D	N/D	N/D	N/D	N/D
		SUPPLIER	N/D	N/D	N/D	N/D	N/D
Diisodecy	l Diphenyl Phosp	hates					
		OSHA	N/D	N/D	N/D	N/D	N/D
		ACGIH	N/D	N/D	N/D	N/D	N/D
		NIOSH	N/D	N/D	N/D	N/D	N/D
		SUPPLIER	N/D	N/D	N/D	N/D	N/D

### LEGEND:

EXPOSURE LIMIT DESCRIPTIONS

CEIL Ceiling Exposure Limit

PEL Permissible Exposure Limit

STEL Short Term Exposure Limit

TLV Threshold Limit Value

TWA Time Weighted Average

N/D = Not Determined

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE (mm Hg) LT 0.1 @ 77F (25C)

VAPOR DENSITY (Air = 1.0) N/D

EVAPORATION RATE

VOLATILE %

N/D

N/D

BOILING POINT

N/D F

ODOR THRESHOLD (ppm)

N/D C

N/D

SPECIFIC GRAVITY

1.15 @ 77F (25C)

BULK DENSITY - Not Applicable

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

SOLUBILITY IN WATER

0.1 g/100 ml miscibility

SOLUBILITY IN OTHER SOLVENTS Not Determined

POUR POINT

N/D F N/D C

COEFFICIENT OF OIL/WATER N/D

MELTING POINT

N/D F

ph factor N/D

CLOUD POINT

N/D C

FLASH POINT 460.00 F

237.77 C

N/D F FLASH METHOD Cleveland Open Cup N/D C

UPPER EXPLOSION LIMIT

LOWER EXPLOSION LIMIT

AUTO IGNITION TEMPERATURE

N/D Other

Viscosity @ 77F (25C) = 52 cps.

SECTION 10. STABILITY AND REACTIVITY

This product is stable at ambient temperatures and atmospheric pressure. It is not self-reactive and is not sensitive to static discharge. It is stable to temperatures of 150 degrees F (66 C) and higher in the absence of moisture. It decomposes when heated above 665 degrees F (352 C).

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.

Hazardous polymerization is not expected to occur.

Decomposition Under wet acidic or alkaline conditions this product hydrolyzes slowly and nonviolently to form phenol, substituted phenols, and aryl phosphoric acids.

Conditions to Avoid
Prolonged storage at elevated temperatures (above 65.6 C; 150 F)
should be avoided. Avoid contact with strong acids, strong bases, and strong oxidizers.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological - Inhalation The acute inhalation LC50 for a similar product was greater than 3.1 mg/l in both male and female rats. A single 4-hour inhalation exposure of male and female rats to 3.1 mg/l (greater than 99% respirable) resulted in no mortalities.

Inhalation Chronic Exposure Chronic inhalation exposure effects for this product are not known.

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SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

Toxicological - Dermal The acute dermal LD50 is greater than 2000 mg/kg in rabbits. A single dermal application of 2000 mg/kg did not produce signs of toxicity in rabbits.

This product was a mild irritant to rabbit skin following a twenty-four hour exposure.

Skin Contact - CHRONIC Chronic dermal exposure effects for this product are not known.

Toxicological - Eye
This product is a mild irritant to rabbit eyes.

Toxicological - Ingestion
The acute oral LD50 is 4700 mg/kg in female rats, and greater than 5000 mg/kg in male rats. A single oral dose of 5000 mg/kg produced a moderate decrease in physical activity, diarrhea, stained fur and 20% mortality in male rats. A single oral dose of 2884 mg/kg produced decreased physical activity, stained fur, mild to moderate diarrhea and no mortality in female rats. A single oral dose of 7244 mg/kg produced 100% mortality in female rats.

Ingestion - CHRONIC
The effects of chronic ingestion of this product by humans are not known; however, experimental studies with rats fed daily doses of 100, 400 or 1600 parts per million of a similar product for 3 months produced increases in the liver and adrenal gland weights in females and increases in the liver weights of males at the highest dose level.

CARCINOGENICITY/MUTAGENICITY
In toxicological tests conducted with a similar product:

The product was examined for mutagenic activity in a series of in vitro microbial assays employing Salmonella indicator organisms with and without metabolic activation. Mutagenic activity was not demonstrated in any of the assays conducted.

The product was examined twice in a Mouse Lymphoma Forward Mutation Assay. No mutagenic activity was demonstrated in these assays.

The product was examined in the In Vitro Cytogenic Assay with and without metabolic activation. It did not induce increases in the frequency of chromosome abberations with and without activation.

The product was examined in an in vitro malignant transformation test utilizing BALB/3T3 cells. It did not induce a significant increase of morphologic transformations and did not exhibit tumorigenic potential in this assay.

REPRODUCTIVE EFFECTS
For butylated triphenyl phosphate, a product component:

Daily administration of this material at 100, 400, or 1000 mg/kg to rats on days 6 through 20 of gestation demonstrated maternal toxicity (increased liver weights and reduced food consumption at the high-dose) and feto-toxicity (reduction in fetal body weight at the high-dose) but no indications of teratogenicity were observed.

In a rat reproduction study, male and female animals received either 50, 250 or 1000 mg/kg/day for several weeks after which they were mated. There was no reproductive toxicity observed at any dose

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SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

level. Diagnostic pathology confirmed no alterations to the reproductive organs. There was no effect on mating index, litter size, survival of the offspring, or on any other measured parameter. Butylated triphenyl phosphate did not demonstrate reproductive toxicity.

NEUROTOXICITY
This product contains triphenyl phosphate which has been reported to cause cholinesterase inhibition in humans. Symptoms of cholinesterase inhibition may include tremors, tears, salivation, sweating, headache, muscle twitching, abdominal cramps, diarrhea, incoordination, blurred vision, nausea and chest discomfort.

When the product was administered orally to hens at a dose of 11.7 g/kg, a significant inhibition of hen plasma cholinesterase resulted; no inhibition of hen brain neurotoxic esterase resulted.

When the product was administered to hens at the same dose with a three week interval between each dose, no acute delayed neurotoxicity resulted.

Other Toxicological Effects
No other toxic effects for this product are known.

Target Organs
Target organs are the skin, eyes, liver, adrenal glands, blood, and the central nervous and respiratory systems.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
Triphenyl phosphate, a product component, is moderately toxic to midge larvae, bluegill, sunfish, and algae. It is highly toxic to daphnia mangna, rainbow trout, sheepshead minnow, fathead minnow, and mysid shrimp.

DISTRIBUTION
Triaryl phosphate esters, including triphenyl phosphate, exhibit low aqueous solubility, have moderate potential for bioconcentration and readily undergo primary and ultimate biodegration by naturally occurring mixed-microbial populations present in activated sludge and river water.

Chemical fate information on this product is not known.

SECTION 13. DISPOSAL CONSIDERATIONS

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.

This product, if unused, does not meet the EPA's RCRA criteria as either a listed or a characteristic hazardous waste. Generators of wastes are required to evaluate their materials for compliance with RCRA and local disposal procedures and regulations.

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SECTION 13. DISPOSAL CONSIDERATIONS (CONTINUED)

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.

SECTION 14. TRANSPORT INFORMATION

SHIPPING DESCRIPTION
FOLLOWING SHIPMENTS ARE NOT REGULATED FOR TRANSPORT:
Surface transport within North America (U.S.A., Canada, Mexico) in packages of 119 gallons or less (non-bulk).
Air transport within North America (U.S.A., Canada, Mexico).

FOLLOWING SHIPMENTS ARE REGULATED FOR TRANSPORT (SHIPPING DESCRIPTION FOLLOWS):
Bulk surface shipments within North America (> 119 gallons).
Water transport within North America (U.S.A., Canada, Mexico).
Export shipments (excluding non-bulk shipments to Canada and Mexico and shipments via air transport to Canada and Mexico).

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triphenyl phosphate/tert-butylated triphenyl phosphates mixtures containing 10% to 48% triphenyl phosphates)
9, UN3082, PG III
NORTH AMERICAN EMERGENCY RESPONSE GUIDE NO. 171

REQUIRED LABELS
PRIMARY LABEL: Class 9
SUBSIDIARY RISK LABEL: Marine pollutant

ENVIRON. HAZARDOUS SUBSTANCE
This product contains triphenyl phosphate which is a Marine
Pollutant per 49 CFR 172.101, Appendix B.

SECTION 15. REGULATORY INFORMATION

Component Triphenyl phosphate is subject to the following

Enviromental List

DSL Domestic Substance List-Canada
MA. LIST Massachusetts Substance List
NJ R-T-K New Jersey R-T-K Hazard. Sub.
PA. LIST Penn. Hazardous Substance List
TSCA Toxic Subst. Cont. Act -listed

Component Butylated triphenyl phosphate mixture is subject to the followin

Environmental List

DSL Domestic Substance List-Canada
TSCA Toxic Subst. Cont. Act -listed

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SECTION 15. REGULATORY INFORMATION

(CONTINUED)

Component Isodecyl diphenyl phosphate is subject to the following

Enviromental List

DSL Domestic Substance List-Canada
TSCA Toxic Subst. Cont. Act -listed

Component Diisodecyl Diphenyl Phosphates is subject to the following

Enviromental List

DSL Domestic Substance List-Canada
TSCA Toxic Subst. Cont. Act -listed

OTHER REGULATORY INFORMATION
No other regulatory information is available on this product.

WHMIS HAZARD CLASS NOT CONTROLLED HAZARD RATING SOURCE

HMIS

NOT CONTROLLED

REACTIVITY

0

HEALTH

FLAMMABILITY

OTHER

SECTIO

SECTION 16. OTHER INFORMATION

OTHER INFORMATION PHOSFLEX is a registered trademark of Supresta LLC.

Revisions made in Section(s) 2, 4, 11, 15

CREATED BY

Product Safety 914-269-5900

KEY TO ABBREVIATIONS:

EQ=EQual AP=APproximately LT=Less Than TR=TRace

GT=Greater Than ND=No Data available

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