

(Material) Safety Data Sheet



Section 1 - Product and Company Identification

Material Name	▪ DE NickelPhos Phosphorous Replenisher
Product Description	▪ Clear, colorless liquid with no odor.
Manufacturer	▪ PALM International Manufacturing Company 1289 Bridgestone Pkwy LaVergne, TN 37086 United States
Telephone	
General	▪ 615-641-1200
<u>Emergency</u>	▪ 800-424-9300 - CHEMTREC
Preparation Date	▪ 8/3/2011
Last Revision Date	▪ 8/3/2011

Section 2 - Hazards Identification

EMERGENCY OVERVIEW

DANGER

Causes severe skin burns and eye damage. Toxic if inhaled. Harmful if swallowed. May be corrosive to metals.

Prevention	P260: Do not breathe mist, vapors or spray. P270: Do not eat, drink or smoke when using this product. P233: Keep container tightly closed. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves, Full Body Suit, and Face Shield & Eye Protection. P285: In case of inadequate ventilation wear respiratory protection. P264: Wash thoroughly after handling.
Response	P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P363: Wash contaminated clothing before reuse. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310: Immediately call a POISON CENTER or doctor/physician.
Storage/Disposal	P405: Store locked up. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P501: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.



Physical Form	▪ Liquid
Color	▪ colorless

Odor
OSHA
WHMIS

- Odorless
- Toxic, Corrosive
- Class E - Corrosive materials, Class D - Poisonous and Infectious Materials - Division 1 - Subdivision B
- The image shows two circular GHS hazard pictograms. The left one is for Corrosive (C), showing a liquid dripping from test tubes onto a hand and a surface. The right one is for Toxic (T), showing a skull and crossbones.

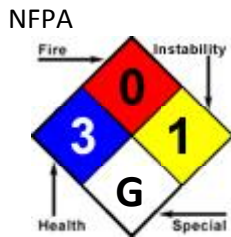
EU

- Harmful - Xn, Corrosive - C
- R22, R35
- The image shows two rectangular EU hazard pictograms. The left one is for Corrosive (C), featuring a large black 'X' on an orange background. The right one is for Toxic (T), showing a hand being poured on by a test tube on an orange background.

GHS

- Skin Corrosion/Irritation - Category 1A, Serious Eye Damage, Eye Irritation - Category 1, Acute Toxicity - Category 3, Acute Toxicity - Category 4, Corrosive to Metals – Category 1
- Inhalation, Skin, Eye, Ingestion/Oral
- Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

Route Of Entry
Medical Conditions
Aggravated by Exposure



Potential Health Effects

Inhalation

Acute (Immediate)

Chronic (Delayed)

- May cause corrosive burns - irreversible damage.
- Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

Skin

Acute (Immediate)

Chronic (Delayed)

- Causes severe skin burns and eye damage.
- Repeated or prolonged exposure to corrosive materials will cause dermatitis.

Eye

Acute (Immediate)

Chronic (Delayed)

- Causes serious eye damage.
- Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

Ingestion

Acute (Immediate)

Chronic (Delayed)

- May cause irreversible damage to mucous membranes.
- Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

Carcinogenic Effects

- This product does not contain any components that are considered carcinogen, or probable or suspected carcinogens by, OSHA, IARC or NTP.

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

Hazardous Components

Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	EU R & S Phrases	Other
Phosphorous acid	13598-36-2	< 40%	237-066-7	Ingestion/Oral-Rat LD50 · 1895 mg/kg Skin-Rat LD50 · >5000 mg/kg Inhalation-Rat LC50 · >2.06 g/m ³ 4 Hour(s)	Xn; R22 C; R35	NDA

Non-Hazardous Components

Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	EU R & S Phrases	Other
Water	7732-18-5	> 60%	231-791-2	Ingestion/Oral-Rat LD50 · >90 mL/kg	NDA	NDA

Under United States Regulations (29 CFR 1900.1200 - Hazard Communication Standard), this product is considered hazardous. In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS). According to European Directive 1999/45/EC this preparation is considered dangerous. According to the Globally Harmonized Standard for Classification and Labeling (GHS) this product is considered hazardous.

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Skin

- For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing and shoes.

Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Ingestion

- Do NOT induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious) Obtain medical attention immediately if ingested. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

Other Information

- Call 911 or emergency medical service. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Keep victim warm and quiet.

See Section 2 for Potential Health Effects.

Section 5 - Fire Fighting Measures

Extinguishing Media

- LARGE FIRES: Dry chemical, CO₂, alcohol-resistant foam or water spray.
SMALL FIRES: Dry chemical, CO₂ or water spray.

Unsuitable Extinguishing Media

- No data available

Firefighting Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
Ventilate closed spaces before entering.
SMALL FIRES: Move containers from fire area if you can do it without risk.
LARGE FIRES: Dike fire control water for later disposal; do not scatter the material.

Unusual Fire and Explosion Hazards

- Under fire conditions, toxic, corrosive fumes are emitted.

Hazardous Combustion Products

- Oxides of phosphorus, phosphine gas.

Protection of Firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it

is not effective in spill situations where direct contact with the substance is possible.

Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Section 6 - Accidental Release Measures

- Personal Precautions**
- Ventilate enclosed areas Do not touch or walk through spilled material Do not touch damaged containers or spilled material unless wearing appropriate protective clothing
- Emergency Procedures**
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions Keep unauthorized personnel away Stay upwind Keep out of low areas
- Environmental Precautions**
- If spilled on the ground, the affected area should be scraped clean and placed in an appropriate container for disposal. Large spills should be handled according to a predetermined plan. Prevent material from entering public sewer system or any waterways. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.
- Containment/Clean-up Measures**
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Cautiously neutralize remainder. Then wash away with plenty of water. Decontaminate tools and equipment following cleanup.

Section 7 - Handling and Storage

- Handling**
- Do not breathe (dust, vapor or spray mist) Do not get on skin or in eyes. Do not ingest. Wear suitable protective clothing, including gloves. Use only with adequate ventilation. Handle and open container with care. Wash thoroughly after use.
- Storage**
- Store in a cool, dry, well ventilated place away from incompatible materials. Store locked up. Keep container tightly closed. Keep temperature below 60°C Store away from; bases, oxidizers, recommended container material: stainless steel(316L)
- Special Packaging Materials**
- Recommended container material: stainless steel (316L), polyethylene or hastalloy C-276. Container material to avoid: brass, mild steel, stainless steel(Type 304).

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment Pictograms



- Respiratory**
- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.
- Eye/Face**
- Wear face shield and eye protection.
- Hands**
- Wear protective gloves -Gloves.
- Skin/Body**
- Wear protective clothing -Full Body Suit, permeation resistant clothing, gloves and footwear, selected with regard for use conditions and exposure potential.
- General Industrial Hygiene Considerations**
- Do not get in eyes or on skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Handle in accordance with good industrial hygiene and safety practice.
- Engineering Measures/Controls**
- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other

engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Exposure Limits/Guidelines

- No exposure limits were found for this product or any of its ingredients.

Section 9 - Physical and Chemical Properties

Physical Form

- Liquid

Appearance/Description

- Colorless liquid with no odor.

Color: colorless		Odor: Odorless	
Taste: NDA		Odor Threshold: NDA	
Boiling Point:	100 C(212 F)	Vapor Pressure:	NDA
Freezing Point:	0 C(32 F)	Vapor Density:	NDA
Specific Gravity/Relative Density:	= 1.3 Water=1	Evaporation Rate:	NDA
Density:	= 10.8485 lbs/gal	VOC (Wt.):	NDA
Bulk Density:	NDA	VOC (Vol.):	NDA
pH:	= 1	Volatiles (Wt.):	NDA
Water Solubility:	NDA	Volatiles (Vol.):	NDA
Solvent Solubility:	NDA	Flash Point:	NDA
Viscosity:	NDA	Flash Point Test Type:	NDA
Half-Life:	NDA	UEL:	NDA
Octanol/Water Partition coefficient:	NDA	LEL:	NDA
Coefficient of water/oil distribution:	NDA	Autoignition:	NDA
Bioaccumulation Factor:	NDA	Bioconcentration Factor:	NDA
Biochemical Oxygen Demand BOD/BOD5:	NDA	Chemical Oxygen Demand:	NDA
Persistence:	NDA	Degradation:	NDA

Section 10 - Stability and Reactivity

Stability

- Stable

Hazardous Polymerization

- Hazardous polymerization will not occur.

Conditions to Avoid

- Temperatures at or above 60°C.

Incompatible Materials

- Reactive metals (eg. Al, Zn), strong bases, oxidizing agents.

Hazardous Decomposition Products

- Thermal decomposition products include: phosphine gas and phosphoric acid.

Section 11 - Toxicological Information

Other Material Information

- Based on the pH of this material it can be expected to cause burns to the skin, eyes and intestinal tract if swallowed.

Component Name	Concentration	CAS	Data
Water	> 60%	7732-18-5	Acute Toxicity: orl-rat LD50:>90 mL/kg; orl-man TDLo:42.86 gm/kg
Phosphorous acid	< 40%	13598-36-2	Acute Toxicity: orl-rat LD50:1895 mg/kg; ihl-rat LC50:>2.06 gm/m ³ /4H; ihl-hmn TCLo:1.2 mg/m ³ ; skn-rat LD50:>5000 mg/kg

Key to abbreviations

TC = Toxic Concentration
TD = Toxic Dose
LD = Lethal Dose
LC = Lethal Concentration

Section 12 - Ecological Information

Ecological Fate	▪ No data available
Persistence/Degradability	▪ No data available
Bioaccumulation Potential	▪ No data available
Mobility in Soil	▪ No data available
Other Information	▪ No data available for the product. While acidity of this material is readily reduced in natural waters, the resulting phosphate may persist indefinitely or incorporate into biological systems.

Section 13 - Disposal Considerations

Product	▪ Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
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Section 14 - Transportation Information**DOT - United States - Department of Transportation**

Shipping Name:Corrosive liquids, n.o.s. (Phosphorous acid solution)
ID Number:UN1760
Hazard Class:8
Labeling Class:8
Packing Group:III

TDG - Canada - Transport of Dangerous Goods

Shipping Name:Corrosive liquids, n.o.s. (Phosphorous acid solution)
ID Number:UN1760
Hazard Class:8
Labeling Class:8
Packing Group:III

IMO/IMDG –International Maritime Transport

Shipping Name:CORROSIVE LIQUID, N.O.S.
ID Number:UN1760
Hazard Class:8
Labeling Class:8
Packing Group:III

ADN - Europe Transport of Dangerous Goods by Road/Inland Waterway

Shipping Name:CORROSIVE LIQUID, N.O.S.
ID Number:UN1760
Hazard Class:8
Labeling Class:8
Packing Group:III

IATA - International Air Transport Association**Shipping Name:**Corrosive Liquid, n.o.s.**ID Number:**UN1760**Hazard Class:**8**Labeling Class:**8**Packing Group:**III**ADR - Europe Transport of Dangerous Goods by Road/Inland Waterway****Shipping Name:**Corrosive Liquid**ID Number:**UN1760**Hazard Class:**8**Labeling Class:**8**Packing Group:**III**RID - Europe Transport of Dangerous Goods by Railways****Shipping Name:**Corrosive Liquid**ID Number:**UN1760**Hazard Class:**8**Labeling Class:**8**Packing Group:**III**Section 15 - Regulatory Information****SARA Hazard Classifications**

- Acute

Risk & Safety Phrases

- R35 Causes severe burns. R22 Harmful if swallowed. S36 Wear suitable protective clothing. S37 Wear suitable gloves. S39 Wear eye/face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

State Right To Know

Component	CAS	MA	NJ	PA
Water	7732-18-5	No	No	No
Phosphorous acid	13598-36-2	No	Yes	No

Inventory

Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Water	7732-18-5	Yes	No	Yes	Yes	No
Phosphorous acid	13598-36-2	Yes	No	Yes	Yes	No

Inventory(Con't.)

Component	CAS	Japan ENCS	Korea KECL	TSCA
Water	7732-18-5	No	Yes	Yes
Phosphorous acid	13598-36-2	Yes	Yes	Yes

Australia**Labor****Australia - Hazardous Substances - Substances Requiring Health Surveillance**

- | | | | |
|--------------------|------------|-------|------------|
| ▪ Phosphorous acid | 13598-36-2 | < 40% | Not Listed |
| ▪ Water | 7732-18-5 | > 60% | Not Listed |

Australia - High Volume Industrial Chemicals List

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

Australia - List of Designated Hazardous Substances - Classification

▪ Phosphorous acid	13598-36-2	< 40%	Xn, C R22, R35
▪ Water	7732-18-5	> 60%	Not Listed

Environment**Australia - National Pollutant Inventory (NPI) Substance List**

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

Australia - Ozone Protection Act - Scheduled Substances

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

Australia - Priority Existing Chemical Program

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

Canada**Labor****Canada - WHMIS - Ingredient Disclosure List**

▪ Phosphorous acid	13598-36-2	< 40%	1 %
▪ Water	7732-18-5	> 60%	Not Listed

Environment**Canada - CEPA - Priority Substances List**

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

China**Europe****Other****EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

▪ Phosphorous acid	13598-36-2	< 40%	Xn; R22 C; R35
▪ Water	7732-18-5	> 60%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

▪ Phosphorous acid	13598-36-2	< 40%	C R:22-35 S:(1/2)-26-36/37/39-45
▪ Water	7732-18-5	> 60%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

▪ Phosphorous acid	13598-36-2	< 40%	S:(1/2)-26-36/37/39-45
▪ Water	7732-18-5	> 60%	Not Listed

Japan

Korea

Mexico

Other**Mexico - Hazard Classifications**

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

Mexico - Regulated Substances

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

United States

Labor**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

Environment**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - D Series Wastes - Max Conc of Contaminants for the Tox Characteristic

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - F Series Wastes - Wastes from Nonspecific Sources

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - K Series Wastes - Wastes from Specified Sources

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - P Series Wastes - Acutely Toxic Wastes

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Part 268 Appendix III - Halogenated Organic Compounds (HOCs)

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Waste Minimization Priority Chemicals

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

United States - Massachusetts

United States - New Jersey

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

United States - Rhode Island

Labor

U.S. - Rhode Island - Hazardous Substance List

▪ Phosphorous acid	13598-36-2	< 40%	Not Listed
▪ Water	7732-18-5	> 60%	Not Listed

Section 16 - Other Information

Last Revision Date

- 8/3/2011

Preparation Date

- 8/3/2011

Disclaimer/Statement of Liability

- The information provided in this material safety data sheet has been obtained from sources believed to be reliable. Palm International, Inc.

provides no warranties, either express or implied and assumed no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration and investigation. You should satisfy yourself that you have all current data relevant to your particular use. Palm International, Inc. know of no medical condition, other than those noted on this material safety data sheet, which are generally recognized as being aggravated by exposure to this product.

Key to abbreviations

NDA = No Data Available