

# Material Safety Data Sheet

## Black powder

58228 - (KIT)  
89759 - (individual)

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Black powder

**Catalog Numbers:**

**Synonyms:**

**Company Identification:**

Fisher Diagnostics  
Fisher Scientific Company, LLC  
8365 Valley Pike  
Middletown, VA 22645-0307

**For information, call:** 800-524-0294

**Emergency Number:** 800-524-0294

**For CHEMTREC assistance, call:** 800-424-9300

**For International CHEMTREC assistance, call:** 703-527-3887

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7440-44-0	Carbon	N/A	231-153-3
7704-34-9	Sulfur	N/A	231-722-6
7757-79-1	Potassium nitrate	N/A	231-818-8
7778-74-7	Potassium perchlorate	N/A	231-912-9
7782-42-5	Graphite	N/A	231-955-3

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: medium to dark gray powder.

**Danger!** Strong oxidizer. Contact with other material may cause a fire. Flammable solid. May cause respiratory tract irritation. May cause eye and skin irritation. May cause blood abnormalities. May cause methemoglobinemia. May cause kidney damage.

**Target Organs:** Blood, kidneys.

#### Potential Health Effects

**Eye:** May cause eye irritation.

**Skin:** Dust causes mechanical irritation. Absorption of potassium perchlorate into the body can result in methemoglobinemia.

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, and death. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown colored blood.

**Inhalation:** Dust is irritating to the respiratory tract. May cause respiratory tract irritation. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, tachycardia, dyspnea (labored breathing), and death. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown blood.

**Chronic:** Prolonged or repeated skin contact may cause dermatitis. Prolonged exposure may cause anemia and methemoglobinemia, characterized by dizziness, drowsiness, headache, breath shortness, cyanosis (bluish skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown colored blood. May cause methemoglobinemia, which is characterized by chocolate-brown colored blood, headache, weakness, dizziness, breath shortness, cyanosis (bluish skin due to deficient oxygenation of blood), rapid heart rate, unconsciousness and possible death.

### Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

**General Information:** Evacuate area and fight fire from a safe distance. Strong oxidizer. Contact with other material may cause fire.

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This chemical poses an explosion hazard. Flammable solid. Containers may explode if exposed to fire.

**Extinguishing Media:** Use water spray to cool fire-exposed containers. Use flooding quantities of water as spray. Do not fight fire when fire reaches container as it may explode. Use dry chemical, CO<sub>2</sub> or dirt. Flame smothering techniques may be ineffective. Water may be used on unburnt material to prevent spread of fire.

**Flash Point:** Not available.

**Autoignition Temperature:** Not available.

**Explosion Limits, Lower:**Not available.

**Upper:** Not available.

**NFPA Rating:** Not published.

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Avoid runoff into storm sewers and ditches which lead to waterways. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Use with adequate ventilation. Keep from contact with clothing and other combustible materials. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage:** Keep away from heat, sparks, and flame. Do not store near combustible materials. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from reducing agents.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Carbon	none listed	none listed	none listed
Sulfur	none listed	none listed	none listed
Potassium nitrate	none listed	none listed	none listed
Potassium perchlorate	none listed	none listed	none listed
Graphite	2 mg/m <sup>3</sup> TWA (respirable fraction, all forms except graphite fibers)	2.5 mg/m <sup>3</sup> TWA (respirable dust) 1250 mg/m <sup>3</sup> IDLH	none listed

**OSHA Vacated PELs:** Carbon: No OSHA Vacated PELs are listed for this chemical. Sulfur: No OSHA Vacated PELs are listed for this chemical. Potassium nitrate: No OSHA Vacated PELs are listed for this chemical. Potassium perchlorate: No OSHA Vacated PELs are listed for this chemical. Graphite: 2.5 mg/m<sup>3</sup> TWA (respirable dust)

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** 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 if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Physical State:** Powder

**Appearance:** medium to dark gray

**Odor:** slight odor

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:**Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:**Not available.

**Decomposition Temperature:**Not available.

**Solubility:** 0.75

**Specific Gravity/Density:**Not available.

**Molecular Formula:**Not available.

**Molecular Weight:**Not available.

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, ignition sources, dust generation, combustible materials, reducing agents.

**Incompatibilities with Other Materials:** Aluminum, ammonia, ammonium nitrate, bromates, bromine trifluoride, chlorates, chlorine trifluoride, fluorine, perchlorates, peroxides, phosphorus, potassium chlorates, sodium chlorate, sodium peroxide, zinc, potassium, hydrogen peroxides, potassium permanganate, boron, lithium, lithium carbide, rubidium acetylene carbide, sodium, tin, acids (mineral, non-oxidizing, e.g. hydrochloric acid, hydrofluoric acid, muriatic acid, phosphoric acid), acids (organic, e.g. acetic acid, benzoic acid, formic acid, methanoic acid, oxalic acid), alcohols and glycols (e.g. butyl alcohol, ethanol, methanol, ethylene glycol), aldehydes (e.g. acetaldehyde, acrolein, chloral hydrate, formaldehyde), amides (e.g. butyramide, diethyltoluamide, dimethyl formamide), amines (aliphatic and aromatic, e.g. dimethyl amine, propylamine, pyridine, triethylamine), azo, diazo, and hydrazines (e.g. dimethyl hydrazine, hydrazine, methyl hydrazine), carbamates (e.g. carbanolate, carbofuran), cyanides (e.g. potassium cyanide).

**Hazardous Decomposition Products:** Chlorine, nitrogen oxides, oxides of sulfur, oxygen, oxides of potassium.

**Hazardous Polymerization:** Has not been reported

## Section 11 - Toxicological Information

**RTECS#:**

**CAS# 7440-44-0:** FF5250100

**CAS# 7704-34-9:** WS4250000

**CAS# 7757-79-1:** TT3700000

**CAS# 7778-74-7:** SC9700000

**CAS# 7782-42-5:** MD9659600

**LD50/LC50:**

Not available.

Not available.

CAS# 7757-79-1:

Oral, rabbit: LD50 = 1901 mg/kg;

Oral, rat: LD50 = 3750 mg/kg;

Oral, rat: LD50 = 3540 mg/kg;

CAS# 7778-74-7:

CAS# 7782-42-5:

**Carcinogenicity:**

CAS# 7440-44-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 7704-34-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 7757-79-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 7778-74-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 7782-42-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No data available.

**Teratogenicity:** Potassium perchlorate is an experimental teratogen.

**Reproductive Effects:** No data available.

**Mutagenicity:** No data available.

**Neurotoxicity:** No data available.

**Other Studies:**

## Section 12 - Ecological Information

No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 - Transport Information

	US DOT	Canada TDG
<b>Shipping Name:</b>	Not regulated as a hazardous material	No information available.
<b>Hazard Class:</b>		
<b>UN Number:</b>		
<b>Packing Group:</b>		

## Section 15 - Regulatory Information

**US FEDERAL**

**TSCA**

CAS# 7440-44-0 is listed on the TSCA inventory.  
CAS# 7704-34-9 is listed on the TSCA inventory.  
CAS# 7757-79-1 is listed on the TSCA inventory.  
CAS# 7778-74-7 is listed on the TSCA inventory.  
CAS# 7782-42-5 is listed on the TSCA inventory.

**Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

**CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

**SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

**SARA Codes**

CAS # 7440-44-0: immediate.  
CAS # 7704-34-9: immediate, delayed, fire.  
CAS # 7757-79-1: immediate, delayed, fire.  
CAS # 7778-74-7: immediate, fire, reactive.

**Section 313**

This material contains Potassium nitrate (listed as Water Dissociable Nitrate Compounds), N/A%, (CAS# 7757-79-1) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

**Clean Air Act:**

This material does not contain any hazardous air pollutants.  
This material does not contain any Class 1 Ozone depletors.  
This material does not contain any Class 2 Ozone depletors.

**Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.  
None of the chemicals in this product are listed as Priority Pollutants under the CWA.  
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 7440-44-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.  
CAS# 7704-34-9 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.  
CAS# 7757-79-1 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.  
CAS# 7778-74-7 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.  
CAS# 7782-42-5 can be found on the following state right to know lists: California, Pennsylvania, Minnesota, Massachusetts.

**California Prop 65**

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations****European Labeling in Accordance with EC Directives****Hazard Symbols:**

XN O

**Risk Phrases:**

R 22 Harmful if swallowed.  
R 40 Limited evidence of a carcinogenic effect.  
R 8 Contact with combustible material may cause fire.  
R 9 Explosive when mixed with combustible material.

**Safety Phrases:**

S 13 Keep away from food, drink and animal feeding stuffs.  
S 14 Keep away from ... (incompatible materials to be indicated by the manufacturer).  
S 16 Keep away from sources of ignition - No smoking.  
S 17 Keep away from combustible material.  
S 22 Do not breathe dust.  
S 24/25 Avoid contact with skin and eyes.  
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S 28B After contact with skin, wash immediately with plenty of water and soap.

**WGK (Water Danger/Protection)**

CAS# 7440-44-0: 0  
CAS# 7704-34-9: 1  
CAS# 7757-79-1: 1  
CAS# 7778-74-7: 1  
CAS# 7782-42-5: 0

**Canada - DSL/NDSL**

CAS# 7440-44-0 is listed on Canada's DSL List.  
CAS# 7704-34-9 is listed on Canada's DSL List.  
CAS# 7757-79-1 is listed on Canada's DSL List.  
CAS# 7778-74-7 is listed on Canada's DSL List.

CAS# 7782-42-5 is listed on Canada's DSL List.

**Canada - WHMIS**

WHMIS: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

CAS# 7757-79-1 is not listed on the Canadian Ingredient Disclosure List.

## Section 16 - Additional Information

**MSDS Creation Date:** 2/13/1998

**Revision #3 Date:** 9/01/2004

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.*

# Material Safety Data Sheet

## Phosphorus Red Amorphous

58228 - (KIT)

88703 - (individual)

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Phosphorus Red Amorphous

**Catalog Numbers:**

**Synonyms:** None

**Company Identification:**

Fisher Diagnostics

Fisher Scientific Company, LLC

8365 Valley Pike

Middletown, VA 22645-0307

**For information, call:** 800-524-0294

**Emergency Number:** 800-524-0294

**For CHEMTREC assistance, call:** 800-424-9300

**For International CHEMTREC assistance, call:** 703-527-3887

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7723-14-0	Phosphorus	100	231-768-7

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Appearance: dark red solid.

**Danger!** May be fatal if swallowed. Highly toxic. Flammable solid. May cause severe eye irritation and possible injury. Causes digestive and respiratory tract irritation. May cause skin irritation. May cause liver and kidney damage. Light sensitive.

**Target Organs:** Kidneys, liver.

### Potential Health Effects

**Eye:** May cause eye irritation. May result in corneal injury.

**Skin:** Prolonged and/or repeated contact may cause irritation and/or dermatitis.

**Ingestion:** May be fatal if swallowed. May cause irritation of the digestive tract. May cause liver and kidney damage.

**Inhalation:** May cause respiratory tract irritation.

**Chronic:** Prolonged or repeated skin contact may cause dermatitis. May cause liver and kidney damage. Chronic exposure can lead to necrosis of the jaw, or 'phossy-jaw'.

## Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:** Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Containers may explode in the heat of a fire. This material is readily combustible and may ignite if exposed to friction. Flammable solid. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. May re-ignite after fire is extinguished.

**Extinguishing Media:** DO NOT USE WATER! Cool containers with flooding quantities of water until well after fire is out. Use dry sand, dry chemical, soda ash or lime.

**Flash Point:** Not available.

**Autoignition Temperature:** 260 deg C ( 500.00 deg F)

**Explosion Limits, Lower:**None available

**Upper:** None available

**NFPA Rating:** (estimated) Health: 1; Flammability: 0; Instability: 0

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Cover with sand and place into a closed container for disposal. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Store protected from light. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage:** Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Store protected from light.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Phosphorus	none listed	0.1 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup> IDLH	0.1 mg/m <sup>3</sup> TWA

**OSHA Vacated PELs:** Phosphorus: 0.1 mg/m<sup>3</sup> TWA

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** 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 if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Physical State:** Solid

**Appearance:** dark red

**Odor:** odorless

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** 4.77

**Evaporation Rate:**Not available.

**Viscosity:** Not available.

**Boiling Point:** 416 deg C (sublimes)

**Freezing/Melting Point:**416 deg C

**Decomposition Temperature:**290 deg C

**Solubility:** Insoluble in water.

**Specific Gravity/Density:**2.34

**Molecular Formula:**P

**Molecular Weight:**30.9738

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, light, ignition sources, excess heat, strong oxidants.

**Incompatibilities with Other Materials:** Red, white and yellow phosphorus reacts explosively with a large number of compounds and

elements. Please refer to NFPA's Fire Protection guide to Hazardous Materials for details. May explode on contact with oxidizing materials. Produces acrid fumes in air. Can be ignited by friction, static electric discharge, heating and mixing with strong oxidizing agents. Reacts with halogens, halides, sulfur and oxidizing materials.

**Hazardous Decomposition Products:** Phosphine, oxides of phosphorus, irritating and toxic fumes and gases.

**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

**RTECS#:**

**CAS#** 7723-14-0: TH3495000; TH3500000

**LD50/LC50:**

CAS# 7723-14-0:

Oral, mouse: LD50 = 11.5 mg/kg;

Oral, mouse: LD50 = 4820 ug/kg;

Oral, rabbit: LD50 = 105 mg/kg;

Oral, rat: LD50 = 11.5 mg/kg;

Oral, rat: LD50 = 3030 ug/kg;

**Carcinogenicity:**

CAS# 7723-14-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** Not available.

**Teratogenicity:** Not available.

**Reproductive Effects:** Not available.

**Mutagenicity:** Not available.

**Neurotoxicity:** No information reported

**Other Studies:**

## Section 12 - Ecological Information

**Ecotoxicity:** No data available. No information available.

**Environmental:** No information reported.

**Physical:** No information available.

**Other:** Very toxic to aquatic organisms.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 - Transport Information

	US DOT	Canada TDG
<b>Shipping Name:</b>	Not regulated as a hazardous material	No information available.
<b>Hazard Class:</b>		
<b>UN Number:</b>		
<b>Packing Group:</b>		

## Section 15 - Regulatory Information

### US FEDERAL

**TSCA**

CAS# 7723-14-0 is listed on the TSCA inventory.

**Health & Safety Reporting List**

CAS# 7723-14-0: Effective 4/12/93, Sunset 6/30/98

**Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

**CERCLA Hazardous Substances and corresponding RQs**

CAS# 7723-14-0: 1 lb final RQ; 0.454 kg final RQ

**SARA Section 302 Extremely Hazardous Substances**

CAS# 7723-14-0: 100 lb TPQ (This material is a reactive solid. The TPQ does not default to 10000 pounds for non-powder, non-molten, non-solvent form)

**SARA Codes**

CAS # 7723-14-0: immediate, delayed, fire.

**Section 313**

This material contains Phosphorus (CAS# 7723-14-0, 100%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

**Clean Air Act:**

CAS# 7723-14-0 is listed as a hazardous air pollutant (HAP).

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

**Clean Water Act:**

CAS# 7723-14-0 is listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 7723-14-0 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

**California Prop 65**

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations****European Labeling in Accordance with EC Directives****Hazard Symbols:**

F

**Risk Phrases:**

R 11 Highly flammable.

R 16 Explosive when mixed with oxidizing substances.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrases:**

S 7 Keep container tightly closed.

S 43C In case of fire, use limestone powder, sodium chloride or dry sand (never use water).

S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

**WGK (Water Danger/Protection)**

CAS# 7723-14-0: No information available.

**Canada - DSL/NDSL**

CAS# 7723-14-0 is listed on Canada's DSL List.

**Canada - WHMIS**

This product has a WHMIS classification of B4, D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

CAS# 7723-14-0 is listed on the Canadian Ingredient Disclosure List.

**Section 16 - Additional Information**

**MSDS Creation Date:** 8/07/1998

**Revision #5 Date:** 8/05/2004

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.*