

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Manufacturer/Distributor : Kobo Products, Inc.
Address : 3474 South Clinton Avenue
South Plainfield, NJ 07080, USA
Emergency Telephone # : (908) 757-0033
Facsimile Number : (908) 757-0905
Trade Name : **PF-5 Red R-516L**
Chemical Name/ Synonyms : Iron Oxides (And) C9-15 Fluoroalcohol Phosphates

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Chemical Name</u> | <u>CAS #</u> | <u>EINECS #</u> |
|--------------------------------|--------------|-----------------|
| Red Iron Oxide | 1309-37-1, | 215-168-2 |
| C9-15 Fluoroalcohol Phosphates | 666709-57-5 | Polymer |

SECTION 3: HAZARD IDENTIFICATION

No particular danger

SECTION 4: FIRST AID MEASURES

Effects and Symptoms:

Toxicity Data:

Effects of Overexposure to Dust : May cause mechanical irritation to eyes.
Medical Conditions Aggravated by Exposure : Persons with respiratory conditions may be at increased risk.
Primary Route(s) of Entry : Inhalation or skin and eye contact.

Emergency First Aid:

Eye Contact : Flush eyes with water for at least 15 min. See physician if irritation persists.
Skin Contact : Flush skin with soap and water for at least 15 min.
Inhalation : Remove to fresh air. If breathing is difficult give oxygen. See physician.
Ingestion : None needed for small amounts. For large amounts, if conscious, give water to drink, induce vomiting, and call physician.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point (Closed Cup) : N/A
Flammable Limits LEL/UEL % : N/A
Extinguishing Media : Water, Dry Chemical, Foam, and CO2
Special Fire Fighting Procedures : Self-contained breathing apparatus and protective clothing. If possible, water should be applied as a spray from a fogging nozzle.
Unusual Fire and Explosion Hazards : Melts in proximity to fires. May cause slippery floors and stairs. Static charge on powders may ignite flammable atmosphere.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions : Avoid skin and eye contact
Environmental Precautions : Prevent material from contaminating soil or entering sewerage and drainage systems.
Spill response : Use appropriate NIOHS/MSHA approved respirator. Wear chemical gloves, goggles, and lab coat. Carefully contain spilled material. Deposit spilled material in appropriate waste container. Wash spill area with soap and water.

SECTION 7: HANDLING AND STORAGE

Handling : Use with adequate ventilation. Avoid contact with eyes. Wash thoroughly after handling and before mealtimes. Follow all MSDS and label precautions even after container is emptied since it may contain residual material.
Storage : Store containers closed in ambient location.

PF-5 Red R-516L**SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

| Exposure Levels: <u>Component</u> | OSHA | | ACGIH | |
|---|----------------------|------------|----------------------|------------|
| | <u>TWA</u> | <u>PEL</u> | <u>TWA</u> | <u>TLV</u> |
| Iron Oxides | 15 mg/m ³ | | 10 mg/m ³ | |

Personal Protection:

| | |
|------------------------|---|
| Eye Protection | : Safety glasses with side shields or goggles |
| Skin Protection | : Rubber gloves, wash at meals and end of shifts |
| Respiratory Protection | : Use NIOSH/MSHA approved air-purifying respirator as needed to control exposure. |
| Ventilation | : Provide adequate general mechanical exhaust. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------|-------|------------------------------|-----------------------------------|
| Boiling Point (°C) | : N/A | Percent Volatile By Vol. (%) | : N/A |
| Freezing Point (°C) | : N/A | Vapor Density (Air=1) | : N/A |
| Melting Point (°C) | : N/A | Evaporation Rate (Buac=1) | : N/A |
| Vapor Pressure (mm hg) | : N/A | Solubility In Water | : Insoluble |
| Bulk Density (g/cbi.) | : N/A | Appearance & Odor | : Red Powder, characteristic odor |

SECTION 10: STABILITY AND REACTIVITY

| | |
|----------------------------------|------------------|
| Stable | : Yes |
| Hazardous Polymerization | : Will not occur |
| Conditions to Avoid | : None |
| Incompatibility | : None |
| Hazardous Decomposition Products | : Not Applicable |

SECTION 11: TOXICOLOGICAL INFORMATION

| | <u>Iron Oxides</u> |
|-----------------------------|--|
| Skin Irritation | : No data |
| Eye Irritation (rabbit) | : Mild-Irritant; Average Draize score = 0.00 |
| Acute Oral Toxicity (rat) | : Non-toxic, LD ₅₀ > 15 g/kg |
| Inhalation LC ₅₀ | : LC ₅₀ >5,000 g/kg |

Chronic Effects on Humans

CARCINOGENIC EFFECTS: Classified None by NIOSH [Iron Oxides]. Classified A4 (not classifiable for human or animal) by ACGIH, 3 (not classifiable for human) by IARC [Iron Oxides].

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure to the substance at concentrations above exposure limits may cause respiratory damage.

Target Organs: eyes, lungs, skin.

Acute Effects on Humans May cause skin, eye, and respiratory irritation.

Sensitization Repeated or prolonged exposure to the substance at concentrations above the exposure limits may cause respiratory tract and lung sensitization.

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

SECTION 12: ECOLOGICAL INFORMATION

No information is available.

SECTION 13: DISPOSAL CONSIDERATIONS

Method of Disposal : Dispose of in accordance with all applicable Federal, State, and Local regulations. Material may be sent to an approved landfill or licensed treatment, storage and disposal facility.

SECTION 14: TRANSPORT INFORMATION

DOT Classification : Non-hazardous

SECTION 15: REGULATORY INFORMATION

No information is available.

SECTION 16: OTHER INFORMATION

Hazardous Material Information System (U.S.A.) [Ratings Key: 4= Highest hazard, 0= Lowest hazard]

| | |
|---------------------|---|
| Health | 1 |
| Fire Hazard | 0 |
| Reactivity | 0 |
| Personal Protection | E |

Date Prepared : August 5, 1998
Date Revised : January 16, 2003
Date Revised : April 1, 2004
By Eric Smith
Date Prepared : May 20, 2010

Note:

The statements made here are intended to describe the product with regard to necessary safety precautions. They do not guarantee special characteristics. This information is furnished without warranty, expressed or implied, except that it is accurate to the best of our current knowledge.