

# MATERIAL SAFETY DATA SHEET



Conforms to 93/112/EC and ISO 11014-1

## 1. Chemical Product and Company Identification

**Product Name:** PPO

**Product Number:** SFC-10

### Chemical Names/

#### Description:

2,5-Diphenyloxazole

### Manufacturer

National Diagnostics  
305 Patton Drive  
Atlanta, GA 30336

### Telephone Numbers

(800) 526-3867  
(404) 699-2121

### Emergency Numbers

#### Chemtrec

**(800) 424-9300 (U.S. & Canada)**  
**01-703-527-3887 (outside U.S. & Canada)**

## 2. Composition/Information on Ingredients

Component	% Comp.	CAS #	EINECS #	TLV (Units)
PPO	99	92-71-7	202-181-3	10 mg/m3

## 3. Hazards Identification

### Appearance and Odor

White powder.

#### EMERGENCY OVERVIEW - IMMEDIATE HAZARD

CAUTION! MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

#### EMERGENCY OVERVIEW - CHRONIC HAZARD WARNING:

NO INFORMATION FOUND.

### Potential Health Effects

#### Inhalation

May cause irritation to the respiratory tract.

#### Ingestion

Information limited. Should be assumed moderately toxic like other aromatic compounds and having the capacity to cause nausea, vomiting and diarrhea as well as depression and possibly liver or kidney damage on acute exposure. The toxic effects will probably be limited by its low water solubility.

**Skin**

May cause skin irritation.

**Eyes**

May cause irritation to the eyes.

**Signs and Symptoms of Overexposure****Inhalation**

Coughing and shortness of breath.

**Ingestion**

Nausea, vomiting, and diarrhea.

**Skin**

Redness and pain.

**Eyes**

Redness, pain, tearing.

**Carcinogenicity**

Not listed as a known or anticipated carcinogen by NTP or IARC.

**Mutagenicity**

No information found.

**Reproductive Toxicity**

No information found.

**Teratogenic Effects**

No information found.

**Routes of Entry**

No information found.

**Target Organ Statement**

No information found.

**4. First Aid Measures****Inhalation**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion**

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.

**Skin**

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eyes**

Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**5. Fire Fighting Measures**

Flash Point	335C	Flammable Limits	No Data
Flash Point Method	TCC	Autoignition temperature	No Data

**Extinguishing media**

Water spray, dry chemical, alcohol-resistant foam, or carbon dioxide.

### **Protective Equipment**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### **Hazardous Combustion Products**

Thermal decomposition products may include toxic oxides of nitrogen and carbon.

### **Unusual Fire and Explosion Hazards**

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

NFPA Codes: Health 2 Flammability 1 Reactivity 0

## **6. Accidental Release Measures**

### **Steps to be taken in case material is released or spilled**

Ventilate area of leak or spill. Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

### **Waste Disposal Method**

Disposal must be made in accordance with applicable federal, state, and local regulations.

### **Personal Precautions**

Wear appropriate protective equipment as specified in section 8.

## **7. Handling and Storage**

### **Handling**

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

### **Storage**

Keep in a tightly closed container, stored in a cooled, dry, ventilated area. Protect from physical damage. Isolate from incompatible materials (section 10).

### **Storage Temperature**

Room Temperature

### **Disposal**

Observe all national, state, and local regulations regarding product disposal. Containers of this material may be hazardous when empty since they retain product residues (dust, solids).

## **8. Exposure Controls/Personal Protection**

### **Airborne Exposure Limits**

Component: PPO

ACGIH Threshold Limit Value (TLV): 10 mg/m<sup>3</sup>

OSHA Permissible Exposure Limit (PEL): 5 mg/m<sup>3</sup>

### **Engineering Controls**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborn Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

### **Respiratory Protection**

If exposure limits are exceeded, wear a full-face respirator with organic vapor cartridge and high efficiency dust mist filter. Beyond fifty times exposure limits or when exposure levels are not known,

wear a full-face piece positive pressure respirator.

### Eye Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

### Skin Protection

Wear protective gloves and clean body covering clothing.

### Other Control Measures

N.A.

## 9. Physical Properties

<b>Boiling point</b>	360C	<b>Evaporation Rate</b>	No information found
<b>Melting point</b>	72-73C	<b>Solubility in water</b>	Insoluble
<b>Vapor pressure (mmHg)</b>	No information found	<b>pH</b>	N.A.
<b>Vapor density (Air = 1)</b>	No information found	<b>Specific gravity (H2O = 1)</b>	1.06
<b>% volatile by volume</b>	0		

## 10. Stability and Reactivity

### Stability

Stable under ordinary conditions of use and storage.

### Conditions to Avoid

No information found.

### Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, and oxides of nitrogen may form when heated to decomposition.

### Hazardous Polymerization

Will not occur

### Incompatibles

PPO:

Strong oxidizers.

## 11. Toxicological Information

### Product LD50 Values

PPO	Oral Rat LD50 (mg/kg):	758
PPO	Dermal Rabbit LD50 (mg/kg):	No Data

### Component Cancer List Status

NTP Carcinogen

	Known	Anticipated	IARC Category
PPO	No	No	None

## 12. Ecological Information

### PPO

No information found.

## 13. Disposal Considerations

Observe all national, state, and local regulations regarding product disposal. Containers of this material may be hazardous when empty since they retain product residues (dust, solids).

## 14. Transport Information

### D.O.T.

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

### I.A.T.A.

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

### I.M.O.

Proper Shipping Name: Not Regulated

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

## 15. Regulatory Information

### United States

#### TSCA Regulatory Statement

All intentional ingredients are listed on the TSCA Inventory.

#### SARA 311/312 Hazard Categories

Component	Fire	Pressure	Reactivity	Acute	Chronic
PPO	No	No	No	Yes	No

### Europe

#### EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

## 16. Other Information

**NFPA Codes: Health 2 Flammability 1 Reactivity 0**

MANUFACTURER DISCLAIMER: The information given herein is offered in good faith as accurate, but without guarantee. Conditions of the use and suitability of the product for particular uses are beyond our control. All risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.