

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 30338

Telephone Numbers

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

Emergency Number

Chemtrec
(800) 424-9300

2. Composition/Information on Ingredients

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

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/m³

OSHA Permissible Exposure Limit (PEL): 5 mg/m³

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

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

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