

**Section 1: Identification****PRODUCT AND COMPANY INFORMATION**

**Product Name:** t-Butyl phenyl diphenyl phosphate      **Molecular Formula:** C<sub>22</sub>H<sub>23</sub>O<sub>4</sub>P

**Catalog Number(s):** P-136

**Company:** Scientific Polymer Products, Inc.  
6265 Dean Parkway  
Ontario, NY 14519

**Telephone:** 585/265-0413  
**Fax:** 585/265-1390  
**Website:** [www.scipoly.com](http://www.scipoly.com)

**Emergency Phone Number:** 800-255-3924 (CHEM TEL)

**Section 2: Hazards Identification****Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute aquatic toxicity, Category 2, H400  
Chronic aquatic toxicity, Category 1), H410

**GHS Label elements, including precautionary statements**

Pictogram



Signal word

Warning

Hazard statement(s)  
H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.  
P391 Collect spillage.  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS – none**

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

**Section 3: Composition/Information on Ingredients**

Ingredient	CAS Number	Concentration (%)
t-Butylphenol diphenylphosphate	56803-37-3	~ 50
Triphenyl phosphate	115-86-6	~ 40
di-tert-butylphenyl phenyl phosphate	65652-41-7	~ 10
tris(p-tert-butylphenyl) phosphate	78-33-1	1-5

## Section 4: First Aid Measures

### Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

#### Indication of any immediate medical attention and special treatment needed

No data available

## Section 5: Fire-Fighting Measures

### Suitable extinguishing media

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

### Special hazards arising from the substance or mixture

No data available

### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### Further information

No data available

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas. Evacuate personnel to safe areas. For personal protection see section 8.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### Reference to other sections

For disposal see section 13.

## Section 7: Handling and Storage

### Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage, including any incompatibilities**  
Keep container tightly closed in a dry and well ventilated place.

**Specific end use(s)**  
Laboratory chemicals, Manufacture of substances

## Section 8: Exposure Controls/Personal Protection

### Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

#### Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances and to the specific work place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage of spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

a)	Appearance	Form: Liquid
b)	Odor	Odorless
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Flammability or explosive limits	No data available
	Upper	No data available
	Lower	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	3.2
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available

- s) Explosive properties No data available  
t) Oxidizing properties No data available

**Other safety information**

No data available

## Section 10: Stability and Reactivity

**Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

No data available

**Incompatible materials**

Oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions- Carbon oxides, oxides of phosphorus

Other decomposition products- no data available

In the event of fire: see section 5

## Section 11: Toxicological Information

**Information on toxicological effects**

**Acute toxicity**

LD50 Oral-Rat >20,000 mg/kg

Inhalation-No data available

LD50 Dermal-Rabbit >7,900 mg/kg

**Skin corrosion/irritation**

Skin-Rabbit

Result: No skin irritation

(OECD Test Guideline 404)

**Serious eye damage/eye irritation**

Eyes-Rabbit

Result: No eye irritation

**Respiratory or skin sensitization**

-Guinea pig

Result: Did not cause sensitization on laboratory animals

(OECD Test Guideline 406)

**Germ cell mutagenicity**

In vitro assay

S. typhimurium

Result: Negative

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### Reproductive toxicity

No data available

#### Specific target organ toxicity - single exposure

No data available

#### Specific target organ toxicity - repeated exposure

No data available

#### Aspiration hazard

No data available

#### Additional Information

RTECS: TC8400000

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## Section 12: Ecological Information

#### Toxicity

Toxicity to fish static test LC50-Oncorhynchus mykiss (rainbow trout)-0.4 mg/l- 96 h

Toxicity to daphnia and other aquatic invertebrates static test EC50-Daphnia (water flea)-1 mg/l – 48 h

Toxicity to algae Growth inhibition LOEC-Desmodesmus subspicatus (green algae)-1 mg/l-72 h

#### Persistence and degradability

No data available

#### Bioaccumulative potential

Bioaccumulation Oryzias latipes -18 d  
At 25° C-0.01 mg/l  
Bioconcentration factor (BCF): 144

#### Mobility in soil

No data available

#### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling and disposal. Very toxic to aquatic life with long lasting effects.

## Section 13: Disposal Considerations

#### Waste treatment methods

##### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Chemical waste generators must also consult local, regional and national hazardous waste regulations to ensure complete and accurate classification.

##### Contaminated packaging

Dispose of as unused product.

## Section 14: Transport Information

### DOT (US)

UN number: 3082                      Class: 9                      Packing group: III  
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (Triphenyl phosphate mixture containing 10-48% triphenyl phosphate)  
Marine pollutant: Yes  
Poison inhalation hazard: No

### IMDG

UN number: 3082                      Class: 9                      Packing group: III  
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (Triphenyl phosphate mixture containing 10-48% triphenyl phosphate)  
Marine pollutant: Yes

### IATA

UN number: 3082                      Class: 9                      Packing group: III  
Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (Triphenyl phosphate mixture containing 10-48% triphenyl phosphate)

## Section 15: Regulatory Information

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

No SARA Hazards

### Massachusetts Right to Know Components

Triphenyl phosphate	CAS No. 115-86-6
---------------------	---------------------

### Pennsylvania Right to Know Components

Triphenyl phosphate	CAS No. 115-86-6
---------------------	---------------------

### New Jersey Right to Know Components

Triphenyl phosphate	CAS No. 115-86-6
---------------------	---------------------

## Section 16: Other Information

### HMIS Rating

Health:	0
Flammability:	1
Reactivity:	0

### NFPA Rating

Health:	0
Flammability:	1
Reactivity:	0

This material is intended for laboratory use only. It is not sold or intended for drug, household or other uses. The information represents the most accurate and complete data currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.