



Section 1: Identification

PRODUCT AND COMPANY INFORMATION

Product Name:	Tributyl phosphate	Molecular Formula:	C ₁₂ H ₂₇ O ₄ P
Catalog Number(s):	P-133		
Company:	Scientific Polymer Products, Inc. 6265 Dean Parkway Ontario, NY 14519		
Telephone:	585/265-0413		
Fax:	585/265-1390		
Website:	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 toxicity, Oral, Category 4, H302

Skin irritation, Category 2, H315

Carcinogenicity, Category 2, H351

GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed.

H315

Causes skin irritation.

H351

Suspected of causing cancer.

Precautionary statement(s)

P281

Use personal protective equipment as required.

P302+P352

IF ON SKIN (or hair): Wash with plenty of soap and water.

P308+P313

IF exposed or concerned: Get medical advice/ attention.

P405

Store locked up.

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 (%)
Tributyl phosphate	126-73-8	100 %

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. Move out of dangerous area.

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

Oxides of phosphorus

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. 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 the environment must be avoided.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. 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

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510): Combustible liquids

Specific end use(s)

Laboratory chemicals, Manufacture of substances

Section 8: Exposure Controls/Personal Protection

Control parameters

Component	CAS-No.	Value	Control parameters	Basis
Tributyl phosphate	126-73-8	TWA	.2 ppm	USA. ACGIH Threshold Limit Values (TLV)
		REL	.2 ppm 2.5 mg/m ³	USA. NIOSH/GUIDE Recommended Exposure Limits
		PEL	5 mg/m ³	USA. Occupational Exposure Limits (OSHA_TRANS)
		TWA	0.2 ppm 2.5 mg/m ³	Z1A

Components with workplace control parameters

Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Eye/face protection

Face shield and safety glasses. 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

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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 or 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	146°C
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Flammability or explosive limits	
	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	0.1% (25°C)
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

Forms explosive mixtures with air on intense heating.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents, Bases

Conditions to avoid

Strong heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical

Incompatible materials

Strong oxidizing agents, Acids and bases.
Various plastics.

Hazardous decomposition products

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-male and female-1,552 mg/kg

LC50 Inhalation-Rat-male and female-4 h ->4.242 mg/l
(OECD Test Guideline 403)

LD50 Dermal-Rabbit- >3,100 mg/kg

Skin corrosion/irritation

Skin-Rabbit
Result-Irritating to skin

Serious eye damage/eye irritation

Eyes-Rabbit
Result: Mild eye irritation – 24 h
(OECD Test Guideline 405)

Respiratory or skin sensitization

In vivo assay- Guinea pig

Result: Did not cause sensitization on laboratory animals

Germ cell mutagenicity

Chromosome aberration test in vitro - Chinese hamster ovary cells Result: Negative

Carcinogenicity

Suspected of causing cancer

Rat-Oral-Tumorigenic: Neoplastic by RTECS criteria. Kidney, Ureter, Bladder: Tumors

Mouse-Oral-Tumorigenic: Neoplastic by RTECS criteria. Liver: Tumors.

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 (GHS)

No data available

Specific target organ toxicity- repeated exposure (GHS)

No data available

Aspiration hazard

No data available

Additional Information

RTECS: TC7700000

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 semi-static test LC50-Oryzias latipes- 17 mg/l- 96 h (OECD Test Guideline 203)

Persistence and degradability

Biodegradability aerobic- Exposure time 28 d Result:89%- Readily biodegradable

Bioaccumulative potentialBioaccumulation Oryzias latipes -38 d- 93 µg/l
Bioconcentration factor (BCF): 21 - 35**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

No data available

Section 13: Disposal Considerations

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

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

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

Tributyl phosphate	CAS-No. 126-73-8
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Pennsylvania Right To Know Components

Tributyl phosphate	CAS-No. 126-73-8
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New Jersey Right To Know Components

Tributyl phosphate	CAS-No. 126-73-8
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California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

HMIS Rating

Health:	2
Flammability:	1
Reactivity:	0

NFPA Rating

Health:	2
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.