



SAFETY DATA SHEET

Preparation Date: No data available **Revision Date:** 06/18/2015 Revision Number: G1

Product identifier

Product code: T1121

Product Name: TRIPHENYL PHOSPHATE, REAGENT

Other means of identification

Synonyms: No information available

CAS #: 115-86-6 RTECS# TC8400000 CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available. Uses advised against No information available

Spectrum Chemical Mfg. Corp Supplier:

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Chemtrec 1-800-424-9300 **Emergency telephone number** Martin LaBenz (West Coast) **Contact Person: Contact Person:** Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation Category 2B

Label elements

Warning

Hazard statements Causes eye irritation May be harmful if swallowed

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

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May be harmful if swallowed

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Triphenyl Phosphate	115-86-6	100	*
115-86-6			

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Causes eye irritation. May be harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon oxides

Specific hazards: May be combustible at high temperatures

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Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes

and clothing. Avoid dust formation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up

Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Triphenyl Phosphate	3 mg/m ³ TWA	3 mg/m ³ TWA	3 mg/m ³ TWA	None
115-86-6				

Canada

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Components	Alberta	British Columbia	Ontario	Quebec
Triphenyl Phosphate	3 mg/m ³ TWA	3 mg/m ³ TWA	3 mg/m ³ TWA	3 mg/m³ TWAEV
115-86-6	_	_	_	-

Australia and Mexico

Components	Australia	Mexico
Triphenyl Phosphate	3 mg/m³ TWA	3 mg/m³ TWA
115-86-6	-	6 mg/m³ STEL

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

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Eye protection: Safety glasses Safety glasses with side-shields

Skin and body protection: Chemical resistant apron. Gloves. Long sleeved clothing.

Respiratory protection: Effective dust mask Wear respirator with dust filter.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and Hygiene measures:

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid. No information available Colorless.

Odor: **Taste** Molecular/Formula weight:

No information available No information available 326.29

Formula: Flammability: Flash point (°C): C18H15O4P May be combustible at high temperature No data available

Lower Explosion Limit (%): Flashpoint (°C/°F): Flash Point Tested according to: No information available

220°C/428°F Closed cup

Autoignition Temperature (°C/°F): **Upper Explosion Limit (%):** :Ha

No information available No information available No information available

Melting point/range(°C/°F): Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

48.5°C/119.3°F 370°C/698°F

Specific gravity: Vapor pressure @ 20°C (kPa): **Bulk density:**

No information available No information available 1.27

Density (g/cm3): **Evaporation rate:** Vapor density:

No information available No information available 11.3

Partition coefficient VOC content (g/L): Odor threshold (ppm): No information available No information available (n-octanol/water):

No information available

No information available

Viscosity: Miscibility: Solubility:

No information available No information available Very slightly soluble in cold water

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

Chemical stability

Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Heat. Ignition sources. Incompatible materials. Conditions to avoid:

Incompatible Materials: Oxidizing agents.

Hazardous decomposition products: Carbon oxides.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Eyes. Ingestion. Inhalation. Skin.

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Acute Toxicity

Component Information

Triphenyl Phosphate - 115-86-6

LD50/oral/rat = 3500 mg/kg Oral LD50 Rat

LD50/oral/mouse = 1320 mg/kg Oral LD50 Mouse

LD50/dermal/rat = No information available

LD50/dermal/rabbit = 7900 mg/kg Dermal LD50Rabbit

LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 3500mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 1320mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = 7900mg/kg

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation

Eye Contact: Causes eye irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available

Sensitization: No information available

Mutagenic Effects: No information available

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Carcinogenic effects: Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Triphenyl Phosphate	A4 Not Classifiable as a Human Carcinogen	Not listed	Not listed	Not listed		Not listed

Reproductive toxicity No data is available

Reproductive Effects:

Developmental Effects:

No information available

No information available

No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available
No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Triphenyl Phosphate - 115-86-6

Freshwater Algae Data: 0.6 - 4 mg/L EC50 Pseudokirchneriella subcapitata 96 h

Freshwater Fish Species Data: 0.28 - 0.5 mg/L LC50 Oncorhynchus mykiss 96 h static 1

0.47 - 1.04 mg/L LC50 Lepomis macrochirus 96 h static 1 0.53 - 0.8 mg/L LC50 Pimephales promelas 96 h static 1

0.81 - 0.94 mg/L LC50 Pimephales promelas 96 h flow-through 1

1.2 mg/L LC50 Oryzias latipes 96 h static 1

Water Flea Data: 0.86 - 1.2 mg/L EC50 Daphnia magna 48 h

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

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Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Triphenyl Phosphate	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available No information available Subsidiary Risk: No information available

Packing Group: None

ERG No: No information available

Marine Pollutant No data available

DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name: No information available **Hazard Class:** No information available **Subsidiary Risk:** No information available **Packing Group:** No information available **Description:** No information available IMDG Page: No information available **Marine Pollutant** No information available MFAG: No information available **Maximum Quantity:** No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:
No information available

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14. TRANSPORT INFORMATION

ICAO

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Triphenyl Phosphate	Present TP	Present KE- 34739		Present (3)- 3363 (3)-2522 (3)-1372	Present	Present	Present 204-112-2

U.S. Regulations

Triphenyl Phosphate

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 1951

Pennsylvania RTK: Present

Minnesota - Hazardous Substance List: Present

California Directors List of Hazardous Substances: Present

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	 Female Reproductive Toxicity:
Triphenyl Phosphate	Not Listed	Not Listed	 Not Listed

CERCLA/SARA

Components	CERCLA - Hazardous	Section 302 Extremely	Section 302 Extremely	Section 313 -	Section 313 - Reporting
	Substances and their	Hazardous	Hazardous	Chemical Category	de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQs		
Triphenyl Phosphate	None	None	None	None	None

U.S. TSCA

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•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Triphenyl Phosphate	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

D2B Toxic materials

Triphenyl Phosphate

Uncontrolled product according to WHMIS classification criteria

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Triphenyl Phosphate	1 %

Inventory

Components	Canada (DSL)	Canada (NDSL)
Triphenyl Phosphate	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory	
		Reporting	
Triphenyl Phosphate	Not listed	Not listed	

EU Classification

R-phrase(s)

not determined (not applicable) R36/38 - Irritating to eyes and skin.

S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
Triphenyl Phosphate		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

None.

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16. OTHER INFORMATION

Revision Date: 06/18/2015
Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

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