

# **Material Safety Data Sheet**

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	Toxic compound, do not ingest or inhale. Avoid all contact with this material.	

Section I. C.	hemical Product and Company Iden	ntification	
Chemical Name	Diphenyl Methylphospho	nate	
Catalog Number	M1428	Supplier	TCI America 9211 N. Harborgate St.
Synonym	Methylphosphonic Acid Diphenyl Ester		Portland OR 1-800-423-8616
Chemical Formula	C <sub>13</sub> H <sub>13</sub> O <sub>3</sub> P		
CAS Number	7526-26-3	In case of Emergency	Chemtrec® (800) 424-9300 (U.S.)
		Call	(703) 527-3887 (International)

Section II. Composition and Information on Ingredients				
Chemical Name	CAS Numbe	Percent (%)	TLV/PEL	Toxicology Data
Diphenyl Methylphosphor	7526-26-3	Min. 98.0%(GC)	Not available.	Rat LD <sub>50</sub> (oral) 233 mg/kg

Section III.	Hazards Identification
Acute Health Effects	Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Chronic Health Effects	CARCINOGENIC EFFECTS: Not available.  MUTAGENIC EFFECTS: Not available.  TERATOGENIC EFFECTS: Not available.  DEVELOPMENTAL TOXICITY: Not available.  Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section IV.	First Aid Measures
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.

Section V.	Fire and Explosion Data		
Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.
Flash Points	110℃ (230°F).	Flammable Limits	Not available.
Combustion Products	These products are toxic carbon oxides (CO,	CO <sub>2</sub> ), phosphates.	
Fire Hazards	Not available.		
Explosion Hazards	Risks of explosion of the product in presence Risks of explosion of the product in presence		
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Consult with local fire authorities before atten		g operations.

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# Section VI. Accidental Release Measures

Spill Cleanup Instructions

Toxic Material.

Stop leak if without risk. If the product is in its solid form: Use a shovel to put the material into a convenient waste disposal container. If the product is in its liquid form: DO NOT get water inside container. Absorb with an inert material and put the spilled material in an appropriate waste disposal. DO NOT touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Consult federal, state, and/or local authorities for assistance on disposal.

# Section VII. Handling and Storage

Handling and Storage Information

TOXIC. Keep locked up.. Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. DO NOT ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Treat symptomatically and supportively.

Always store away from incompatible compounds such as oxidizing agents, alkalis (bases)

# Section VIII. Exposure Controls/Personal Protection

**Engineering Controls** 

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.

Personal Protection

inhalation of the product. this product

Splash goggles. Lab coat. Dust respirator. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling



**Exposure Limits** 

Not available.

Section IX. Physical and Chemical Properties			
Physical state @ 20°C	Solid. (White Crystals and Lumps.)	Solubility	Not available.
Specific Gravity	1.21 (water=1)	-	
Molecular Weight	248.21	Partition Coefficient	Not available.
Boiling Point	Not available.	Vapor Pressure	Not applicable.
Melting Point	32.5 to 37.5 °C (90.5 to 99.5 °F)	Vapor Density	Not available.
Refractive Index	Not available.	Volatility	Not available.
Critical Temperature	Not available.	Odor	Not available.
Viscosity	Not available.	Taste	Not available.

# Section X. Stability and Reactivity Data This material is stable if stored under proper conditions. (See Section VII for instructions) Stability Conditions of Instability Avoid excessive heat and light. Incompatibilities Reactive with strong oxidizing agents, strong alkalis (bases).

Section XI.	Toxicological Information
RTECS Number	SZ9127500
Routes of Exposure	Eye Contact. Ingestion. Inhalation.
Toxicity Data	Rat LD <sub>50</sub> (oral) 233 mg/kg
Chronic Toxic Effects	CARCINOGENIC EFFECTS: Not available.  MUTAGENIC EFFECTS: Not available.  TERATOGENIC EFFECTS: Not available.  DEVELOPMENTAL TOXICITY: Not available.  Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Acute Toxic Effects	Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death.  Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

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Emergency phone number

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# Section XII. **Ecological Information** Not available. Ecotoxicity

Environmental Fate Not available.

# Section XIII. Disposal Considerations

Waste Disposal Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all

federal, state and local regulations when disposing of the substance.

# Section XIV. Transport Information

**DOT Classification** DOT Class 6.1: Toxic material.

UN2811 PIN Number

Proper Shipping Name Toxic solid, organic, n.o.s

Ш Packing Group (PG)

**DOT Pictograms** 



# Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory This compound is ON the EPA Toxic Substances Control Act (TSCA) inventory list.

(EPA)

CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).

WHMIS Classification On NDSL (Canada)

EINECS Number (EEC)

231-388-1

**EEC Risk Statements** 

R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.

Japanese Regulatory Data

#### Section XVI. Other Information

Version 1.0 Validated on 7/5/2007.

Printed 7/5/2007.

# Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

Printed 7/5/2007