

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 16/05/2018 Date of issue: 24/04/2014 Version: 2.0 DLM-9500

SECTION 1: Identification of the subs	stance/mixture and of the company/undertaking		
1.1. Product identifier	stance/mixture and or the company/undertaking		
Product form	: Substance		
Substance name	: TRIPHENYLPHOSPHINE (D15, 99%)		
EC No	: 210-036-0		
CAS No	: 24762-44-5 (Labeled)		
Product code	: DLM-9500		
Formula	: (C6D5)3P		
Synonyms	: Phosphorustriphenyl		
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against		
1.2.1. Relevant identified uses			
Main use category	: Professional use		
Industrial/Professional use spec	: For professional use only		
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety d	ata sheet		
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA			
USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com			
Emergency telephone number			
Emergency numbers:			
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)			
SECTION 2: Hazards identification			
2.1. Classification of the substance or mi	xture		
Classification according to Regulation (EC) No	D. 1272/2008 [CLP]		
Acute Tox. 4 (Oral) H302			
Skin Sens. 1 H317			
STOT RE 2 H373			
Aquatic Chronic 1 H410			
Full text of hazard classes and H-statements : see	e section 16		

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

R43 Xn; R48/22 N; R50/53 Full text of R-phrases: see section 16

GHS-US classification

Acute Tox. 4 (Oral) H302 Skin Sens. 1 H317 STOT RE 2 H373 Aquatic Chronic 1 H410

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements			
Labeling according to Regulation (EC) No	o. 1272/2008 [CLP]		
Hazard pictograms (CLP)			
	GHS08 GHS07 GH	609	
Signal word (CLP)	: Warning		
Hazard statements (CLP)	 H302 - Harmful if swallowed H317 - May cause an allergic skin reacting H373 - May cause damage to organs the H410 - Very toxic to aquatic life with long 	ough prolonged or r	repeated exposure
Precautionary statements (CLP)	 P260 - Do not breathe dust, fume, gas, I P264 - Wash hands, forearms and face P270 - Do not eat, drink or smoke when P272 - Contaminated work clothing shot P273 - Avoid release to the environmen P280 - Wear protective clothing, protect P301+P312 - IF SWALLOWED: Call a c P302+P352 - IF ON SKIN: Wash with pl 	horoughly after han using this product ld not be allowed ou ve gloves potor, a POISON CE	ut of the workplace ENTER if you feel unwell
GHS-US labeling			
Hazard pictograms (GHS-US)		72	
		509	
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	 H302 - Harmful if swallowed H317 - May cause an allergic skin react H373 - May cause damage to organs th H410 - Very toxic to aquatic life with lon 	ough prolonged or i	repeated exposure
Precautionary statements (GHS-US)	 P260 - Do not breathe dust, fume, gas, P261 - Avoid breathing dust, fume, gas, P264 - Wash hands, forearms and face P270 - Do not eat, drink or smoke when P272 - Contaminated work clothing mus P273 - Avoid release to the environmen P280 - Wear protective clothing, protect P301+P312 - If swallowed: Call a docto P302+P352 - If on skin: Wash with plen P314 - Get medical advice/attention if yu P321 - Specific treatment (see Hazardo P330 - Rinse mouth P333+P313 - If skin irritation or rash occ P363 - Wash contaminated clothing befi P391 - Collect spillage P501 - Dispose of contents/container to accordance with local, regional, nationa 	mist, spray, vapors horoughly after han using this product not be allowed out ve gloves a POISON CENTE y of water u feel unwell is component(s) for urs: Get medical ad re reuse hazardous or specia	of the workplace ER if you feel unwell labeling on this label) vice/attention al waste collection point, in
2.3. Other hazards			
No additional information available			
SECTION 3: Composition/Inform	ation on ingredients		
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
TRIPHENYLPHOSPHINE (D15, 99%)	(CAS No) 24762-44-5 (Labeled) (EC No) 210-036-0	100	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 1, H410

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
TRIPHENYLPHOSPHINE (D15, 99%) (Main constituent)	(CAS No) 24762-44-5 (Labeled)	100	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and effect	cts, both acute and delayed
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: May be harmful in contact with skin. May cause allergic skin reaction.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: Harmful if swallowed.
	I attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.2. Special hazards arising from the su	bstance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	 Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.
SECTION 6: Accidental release measurement	sures
	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Avoid breathing vapors, mist, gas. Avoid dust formation.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Do n	ot allow to enter drains or water courses. Avoid release to the environment.
6.3. Methods and material for containme	ent and cleaning up
For containment	: Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.
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 Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.
ng any incompatibilities
: Store in a well-ventilated place. Keep container tightly closed.
: Store at room temperature away from light and moisture.
onal protection
: Wash hands and other exposed areas with mild soap and water before eating, drinking or
smoking and when leaving work.
: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.
: Wear suitable protective clothing and gloves.
: Wear suitable protective clothing and gloves.
: Wear eye protection. Chemical goggles or face shield with safety glasses.
: Wear suitable protective clothing, gloves and eye/face protection.
: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
: Avoid release to the environment.
properties
hemical properties
: Solid
: Crystalline solid
: 277.38 g/mol
: White
: No data available
: No data available
: No data available
: No data available
: No data available : 79 (≥ 81) °C °C (174 - 178 °F)
: 79 (≥ 81) °C °C (174 - 178 °F) : No data available
: 79 (≥ 81) °C °C (174 - 178 °F)
: 79 (≥ 81) °C °C (174 - 178 °F) : No data available
 79 (≥ 81) °C °C (174 - 178 °F) No data available 377 °C (711 °F)
 79 (≥ 81) °C °C (174 - 178 °F) No data available 377 °C (711 °F) 180 °C (356 °F) - closed cup
 79 (≥ 81) °C °C (174 - 178 °F) No data available 377 °C (711 °F) 180 °C (356 °F) - closed cup 425 °C (797°F) at 983 hPa (737 mmHg) No data available The product is not flammable. – Flammability (solids)
 79 (≥ 81) °C °C (174 - 178 °F) No data available 377 °C (711 °F) 180 °C (356 °F) - closed cup 425 °C (797°F) at 983 hPa (737 mmHg) No data available

Relative density

Solubility

Log Pow

17/05/2018

: No data available

: 502 at 25 °C (77° F)

: Water: 0.00017 g/l at 22°C (72°F)

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26, 2012 / Rules and Regulations	
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
9.2. Other information No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable if stored under recommended conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Oxidizing agent.	
10.6. Hazardous decomposition products	
Formed under fire conditions: Carbon oxides, Pho	sphorus oxides.
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
	: Oral: Harmful if swallowed.
TRIPHENYLPHOSPHINE (D15, 99%) (24762-44 LD50 oral rat	700 mg/kg Remarks: Behavioral: Convulsions or effect on seizure threshold
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (ppm)	1135 ppm/4h
ATE CLP (oral)	700.000 mg/kg body weight
ATE CLP (gases)	1135.000 ppmV/4h
	· · · · · · · · · · · · · · · · · · ·
Skin corrosion/irritation	: Skin - Rabbit Result: No skin irritation - 20 h
Serious eye damage/irritation	: Eyes - Rabbit Result: No eye irritation - 24 h
Respiratory or skin sensitization	: Maximisation Test (GPMT) - Guinea pig Does not cause skin sensitization. (Directive 67/548/EEC, Annex V, B.6.)
Germ cell mutagenicity	: AMES test. S. typhimurium result: negative
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
TRIPHENYLPHOSPHINE (D15, 99%) (24762-44	1-5 (Labeled))
Additional information	Repeated dose toxicity
	: Not classified
Potential Adverse human health effects and	: This information is based on our current knowledge and is intended to describe the product for
symptoms	the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: May be harmful in contact with skin. May cause allergic skin reaction.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: Harmful if swallowed.

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CECTION 42. Ecological information	
SECTION 12: Ecological information	
12.1. Toxicity	
	: Very toxic to aquatic life with long lasting effects.
TRIPHENYLPHOSPHINE (D15, 99%) (24762-44	
LC50 fish 1	10000 mg/l - Leuciscus idus (Golden orfe) -96h
EC50 other aquatic organisms 1	5 mg/l Daphnia magna (Water flea) - 48h (OECD Test Guideline 202)
12.2. Persistence and degradability	
TRIPHENYLPHOSPHINE (D15, 99%) (24762-44	4-5 (Labeled))
Persistence and degradability	Biodegradability aerobic - Exposure time 28 d. Result: 2% - Not biodegradable.
12.3. Bioaccumulative potential	
TRIPHENYLPHOSPHINE (D15, 99%) (24762-44	
Log Pow	502 at 25 °C (77° F)
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessmen	t
No additional information available	
12.6. Other adverse effects	
	: An environmental hazard cannot be excluded in the event of an unprofessional handling or
	disposal. Harmful to aquatic life.
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
	: Waste materials should be disposed of under conditions which meet Federal, State, and Local
Regional registation (waste)	environmental control regulations.
Product/Packaging disposal recommendations:	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed
	professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.
SECTION 14: Transport information	
In accordance with ADR / RID / IMD(N
In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number	N
14.1. UN number	N
14.1. UN number Not applicable	N
14.1. UN number Not applicable 14.2. UN proper shipping name	N
14.1. UN number Not applicable	N
14.1.UN numberNot applicable14.2.UN proper shipping nameNot applicable	N
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information	
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information	N : No supplementary information available.
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information	
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information	
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Overland transport	
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Overland transport Packing group (ADR) Class (ADR)	: No supplementary information available.
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Overland transport Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.)	 No supplementary information available. III 9 - Miscellaneous dangerous substances and articles 90
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Other information Overland transport Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR)	 No supplementary information available. III 9 - Miscellaneous dangerous substances and articles 90 M7
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Other information Overland transport Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR)	 No supplementary information available. III 9 - Miscellaneous dangerous substances and articles 90
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Other information Overland transport Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR)	 No supplementary information available. III 9 - Miscellaneous dangerous substances and articles 90 M7
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Other information Overland transport Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR)	 No supplementary information available. III 9 - Miscellaneous dangerous substances and articles 90 M7
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Other information Overland transport Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR)	 No supplementary information available. III 9 - Miscellaneous dangerous substances and articles 90 M7
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Other information Overland transport Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR)	 No supplementary information available. III 9 - Miscellaneous dangerous substances and articles 90 M7
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Other information Overland transport Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR)	 No supplementary information available. III 9 - Miscellaneous dangerous substances and articles 90 M7 9 - Miscellaneous dangerous substances and articles
 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Other information Overland transport Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR) Hazard labels (ADR) 	 No supplementary information available. III 9 - Miscellaneous dangerous substances and articles 90 M7
 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Other information Overland transport Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR) Hazard labels (ADR) 	 No supplementary information available. III 9 - Miscellaneous dangerous substances and articles 90 M7 9 - Miscellaneous dangerous substances and articles 91 92 93
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Overland transport Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR) Hazard labels (ADR) Orange plates	 No supplementary information available. III 9 - Miscellaneous dangerous substances and articles 90 M7 9 - Miscellaneous dangerous substances and articles 10 10
14.1.UN numberNot applicable14.2.UN proper shipping nameNot applicable14.3.Additional informationOther informationOther informationOverland transportPacking group (ADR)Class (ADR)Hazard identification number (Kemler No.)Classification code (ADR)Hazard labels (ADR)Orange platesTunnel restriction code (ADR)	 No supplementary information available. III 9 - Miscellaneous dangerous substances and articles 90 M7 9 - Miscellaneous dangerous substances and articles 9 - Miscellaneous dangerous substances and articles 9 - Miscellaneous dangerous substances and articles 1
14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Overland transport Packing group (ADR) Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR) Hazard labels (ADR) Orange plates	 No supplementary information available. III 9 - Miscellaneous dangerous substances and articles 90 M7 9 - Miscellaneous dangerous substances and articles 10 10

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EAC	: 2Z
Excepted quantities (ADR)	: E1
Transport by sea	
MFAG-No	: 171
Air transport	
Civil Aeronautics Law	: Miscellaneous dangerous substances & articles
14.4. Environmental hazards	
Dangerous for the environment	
Other information	: No supplementary information available.
44.5 On estat and estations for sever	

Special precautions for user 14.5.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.6. Not applicable

SECTION 15: Regulatory information	
15.1. US Federal regulations	
TRIPHENYLPHOSPHINE (D15, 99%) (24762-44	I-5 (Labeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	SARA 313: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313

15.2. International regulations

CANADA TRIPHENYLPHOSPHINE (D15, 99%) (24762-44-5 (Labeled)) Listed on the Canadian DSL (Domestic Substances List)

15.2.1. **National regulations**

No additional information available

15.3. US State regulations

15.5. 00 Otate regulations		
TRIPHENYLPHOSPHINE (D15, 99%)(24762-44-5 (Labeled))		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List	

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1	
Skin Sens. 1	Skin sensitization Category 1	

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STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
R43	May cause sensitization by skin contact
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment
Xn	Harmful

NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 2 - Materials that readily undergo violent chemical change at elevated temperatures and pressures.
HMIS III Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 1 Slight Hazard

: 2 Moderate Hazard

CIL Multi-Solvent Mixture SDS

Physical

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product