

Printing date 07/29/2016

Reviewed on 07/29/2016

### **1** Identification

- · Product name
- · Trade name: Di-p-tolylphosphine, 99%
- Item number: 15-1820
- CAS Number: 1017-60-3
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Strem Chemicals, Inc.
   7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com
- Information department: Technical Department
   Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600

### **2** Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Pyr. Liq. 1H250 Catches fire spontaneously if exposed to air.Self-heat. 2H252 Self-heating in large quantities; may catch fire.

GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H311 Toxic in contact with skin.



Acute Tox. 4 H332 Harmful if inhaled.

· Label elements

· GHS label elements

*The substance is classified and labeled according to the Globally Harmonized System (GHS).* • *Hazard pictograms* 



· Signal word Danger

• *Hazard-determining components of labeling:* Di-p-tolylphosphine, 99%

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TT	(Contd. of page
Hazard staten	
	Catches fire spontaneously if exposed to air.
	elf-heating in large quantities; may catch fire.
	<i>Toxic if swallowed or in contact with skin.</i>
	Iarmful if inhaled.
Precautionary	
P231	Handle under inert gas.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P305+P351+	P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if prese and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P422	Store contents under inert gas.
P501	Dispose of contents/container in accordance with local/regional/national/internation regulations.
Classification	
NFPÅ ratings	
	Health = 2
	Fire = 4
$\mathbf{\mathbf{\mathbf{\nabla}}}$	Reactivity = 0
HMIS-ratings	(scale 0 - 4)
HEALTH 2	Health = 2
HEALTH 2 FIRE 4	

· **vPvB:** Not applicable.

### **3** Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

1017-60-3 Di-p-tolylphosphine, 99%

### 4 First-aid measures

- · Description of first aid measures
- · General information:
- Immediately remove any clothing soiled by the product.
- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.

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· Information for doctor:

- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### **6** Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: Prevent seepage into sewage system, workpits and cellars.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

- Ensure adequate ventilation. • **Reference to other sections**
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# 7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

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Control para	eters	
	th limit values that require monitoring at the workplace: Not required.	
Additional ir	<b>rmation:</b> The lists that were valid during the creation were used as basis.	
Exposure co	ols	
	tive equipment:	
	tive and hygienic measures:	
	n foodstuffs, beverages and feed.	
	nove all soiled and contaminated clothing.	
	fore breaks and at the end of work.	
	clothing separately.	
	with the eyes and skin.	
Breathing eq	exposure or low pollution use respiratory filter device. In case of intensive or longer exposure	01
	tective device that is independent of circulating air.	<i>:</i> и
<b>Protection o</b>		
W7 P	ective gloves	
	rial has to be impermeable and resistant to the product/ the substance/ the preparation. tests no recommendation to the glove material can be given for the product/ the preparation.	/ 1
chemical mix		
	glove material on consideration of the penetration times, rates of diffusion and the degradatio	n
Material of g		
	the suitable gloves does not only depend on the material, but also on further marks of quality nufacturer to manufacturer.	a
	e of glove material	
	k through time has to be found out by the manufacturer of the protective gloves and has t	0
observed.		
Eye protection	Goggles recommended during refilling.	
DI • 1		
Physical a	chemical properties	
	basic physical and chemical properties	_

Appearance:		
Form:	Viscous	
Color:	Colorless	
Odor:	Pungent	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	



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Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Spontaneously flammable in air.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	no data hPa	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wa	ter): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.0 g/l / 0.00 lb/gl	
Other information	No further relevant information available.	

### **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

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· Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

·NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

### **12** Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, IMDG, IATA	UN2845	
UN proper shipping name		
DOT, IATA	Pyrophoric liquids, organic, n.o.s.	
IMDG	PYROPHORIC LIQUID, ORGANIC, N.O.S.	
Transport hazard class(es) DOT		
Class	4.2 Substances liable to spontaneous combustion	

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Label	4.2
IMDG, IATA	
Class Label	<i>4.2 Substances liable to spontaneous combustion 4.2</i>
• Packing group • DOT, IMDG, IATA	I
· Environmental hazards: · Marine pollutant:	No
<ul> <li>Special precautions for user</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Handling Code</li> <li>Segregation Code</li> </ul>	Not applicable. F-G,S-M D H1 Keep as dry as reasonably practicable SG26 In addition: from goods of classes 2.1 and 3 when stowed on deck of a containership a minimum distance of two container space athwartship shall be maintained, when stowed on ro-ro ships of distance of 6 m athwartship shall be maintained. SG63 Stow "separated longitudinally by an intervening complete compartment or hold from" Class 1.
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
• Transport/Additional information: • DOT • Quantity limitations	On passenger aircraft/rail: Forbidden On cargo aircraft only: Forbidden
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	0 Code: E0 Not permitted as Excepted Quantity
· UN ''Model Regulation'':	UN 2845 PYROPHORIC LIQUIDS, ORGANIC, N.O.S., 4.2, I

# **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

Section 355 (extremely hazardous substances):
Substance is not listed.
Section 313 (Specific toxic chemical listings):
Substance is not listed.
TSCA (Toxic Substances Control Act):
Substance is not listed.

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· Proposition 65

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· Chemicals	known	to	cause	cancer:

Substance is not listed.

 $\cdot$  Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements

*The substance is classified and labeled according to the Globally Harmonized System (GHS).* • *Hazard pictograms* 



· Signal word Danger

· Hazard-dete	rmining components of labeling:
Di-p-tolylpho	osphine, 99%
• Hazard state	ments
H250	Catches fire spontaneously if exposed to air.
H252	Self-heating in large quantities; may catch fire.
H301+H311	Toxic if swallowed or in contact with skin.
H332	Harmful if inhaled.
· Precautional	ry statements
P231	Handle under inert gas.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P305+P351-	+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P422	Store contents under inert gas.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Chemical sa	fety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Department issuing SDS: Technical Department.	
Contact: Technical Director	
Date of preparation / last revision 07/29/2016 / -	
Abbreviations and acronyms:	
ADDR: Accord européen sur le transport des marchandises dangereuses par Route ( Carriage of Dangerous Goods by Road)	(European Agreement concerning the Internation
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Pyr. Liq. 1: Pyrophoric Liquids, Hazard Category 1	
Self-heat. 2: Self-Heating Substances and Mixtures, Hazard Category 2	
Acute Tox. 3: Acute toxicity, Hazard Category 3	
Acute Tox. 4: Acute toxicity, Hazard Category 4	