

Safety Data Sheet OMPH056 Date of issue: 06/01/2015 Revision date: 01/09/2015

Version: 2.0

<b>SECTION 1: Identification of the su</b>	bstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Liquid
Substance name	: DIPHENYLPHOSPHORYL AZIDE
Product code	: OMPH056
Formula	: C12H10N3O3P
Synonyms	: AZIDODIPHENYLPHOSPHATE; DIPHENYL AZIDOPHOSPHATE; PHOSPHORAZIDIC ACID, DIPHENYL ESTER
Chemical family	: ORGANOPHOSPHORUS COMPOUND
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Chemical intermediate
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety	/ data sheet
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 info@gelest.com - www.gelest.com	) AM - 5:30 PM EST
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Germany T +49 (0) 69 3535106-500 - F +49 (0) 69 3535 <sup>-</sup>	106 501 (M E): 8:00 AM 4:00 PM
info@gelestde.com - www.gelestde.com	100-301 - (M-F). 8.00 AM - 4.00 FM
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
<b>SECTION 2: Hazards identification</b>	
2.1. Classification of the substance or	mixture
Classification according to Regulation (EC)	No. 1272/2008 [CLP]
Acute toxicity (oral), Category 3	H301
Acute toxicity (dermal), Category 3	H311
Acute toxicity (inhalation:vapour) Category 3	H331
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Full text of H statements : see section 16	
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Adverse physicochemical, human health an	d environmental effects
No additional information available	

No additional information available

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)



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Signal word (CLP)	: Danger
Hazard statements (CLP)	: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation. H319 - Causes serious eye irritation.
Precautionary statements (CLP)	<ul> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P261 - Avoid breathing vapours.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P311 - Call a doctor.</li> <li>P501 - Dispose of contents/container to licensed waste disposal facility.</li> </ul>

### 2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Substance type	: Mono-constituent	
Name	: DIPHENYLPHOSPHORYL AZIDE	
CAS-No.	: 26386-88-9	
EC-No.	: 247-644-0	

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Diphenylphosphoryl azide	(CAS-No.) 26386-88-9 (EC-No.) 247-644-0	95 - 100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319

### Full text of H-statements: see section 16

3.2. Mixtures			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.		
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek measures advice.			
First-aid measures after skin contact	: Wash with plenty of water/ Get medical advice/attention.		
First-aid measures after eye contact	id measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lens present and easy to do. Continue rinsing. Get medical advice/attention.		
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.		
4.2. Most important symptoms and effect	s, both acute and delayed		
Symptoms/effects after inhalation : Toxic if inhaled. May cause irritation to the respiratory tract. Overexposure may cause: Course Headache. Nausea.			
ymptoms/effects after skin contact : Toxic in contact with skin. Causes skin irritation.			
Symptoms/effects after eye contact	ptoms/effects after eye contact : Causes serious eye irritation.		
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.		
4.3. Indication of any immediate medical	attention and special treatment needed		

No additional information available

SECTION 5: Firefighting measures			
5.1.	Extinguishing media		
Suitable	extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.	
5.2.	2. Special hazards arising from the substance or mixture		
Fire haz	ard	: Irritating fumes and organic acid vapors may develop when material is exposed to elevate temperatures or open flame.	∍d

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Firefighting instructions : Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical		
: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapour and mist.		
easures		
equipment and emergency procedures		
: Evacuate unnecessary personnel.		
: Equip cleanup crew with proper protection.		
otify authorities if liquid enters sewers or public waters.		
ment and cleaning up		
: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or		
shovel spills into appropriate container for disposal.		
nal protection.		
: Avoid all eye and skin contact and do not breathe vapour and mist. Provide good ventilation in process area to prevent formation of vapour. Material should be handled in a laboratory hood whenever possible.		
: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.		
Iding any incompatibilities		
: Keep container tightly closed.		
: Copper (Cu). Lead. Silver.		
: Store in a well-ventilated place. Store away from heat.		
: Store in a well-ventilated place. Store away from heat.		
: Store in a well-ventilated place. Store away from heat.		
: Store in a well-ventilated place. Store away from heat. rsonal protection		

### Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### Hand protection:

Neoprene or nitrile rubber gloves

#### Eye protection:

Chemical goggles. Contact lenses should not be worn

### Skin and body protection:

Wear suitable protective clothing

### **Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

SECTIO	ON 9: Physical and chemical p	roperties
9.1.	Information on basic physical and ch	nemical properties
Physical s	state	: Liquid

Appearance	: Clear liquid.		
Molecular mass	: 275.2 g/mol		
Colour	: Straw.		
Odour	: Mild.		
Odour threshold	: No data available		
Refractive index	: 1.552		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: <0°C		
Boiling point	: 157 °C @ 17 mm Hg		
Flash point	: 112 °C		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapour pressure	: < 0.1 mm Hg @ 25°C		
Relative vapour density at 20 °C	: >1		
Relative density	: 1.277		
Solubility	: Insoluble in water. Reacts with water.		
-	: Insoluble in water. Reacts with water. : No data available		
Log Pow	: No data available : No data available		
Log Kow			
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive 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 in sealed containers.			
10.3. Possibility of hazardous reactions	ف		
No additional information available			
10.4. Conditions to avoid			
Heat. Open flame. Sparks.			
10.5. Incompatible materials			
Lead. Copper (Cu). Silver.			
10.6. Hazardous decomposition product	.ts		
Organic acid vapors. POx.			
<b>SECTION 11: Toxicological informa</b>	ation		
11.1. Information on toxicological effect			
Acute toxicity	: Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.		
DIPHENYLPHOSPHORYL AZIDE (26386-88			
ATE CLP (oral)	100 mg/kg bodyweight		
ATE CLP (oral) ATE CLP (dermal)	300 mg/kg bodyweight		
ATE CLP (definal) ATE CLP (vapours)	3 mg/l/4h		
Diphenylphosphoryl azide (26386-88-9)	400 mm/lim badausiaht		
ATE CLP (oral)	100 mg/kg bodyweight		
ATE CLP (dermal)	300 mg/kg bodyweight		
ATE CLP (vapours)	3 mg/l/4h		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
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Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
STOT-single exposure	: Not classified		
STOT-repeated exposure	: Not classified		
Aspiration hazard	: Not classified		
Symptoms/effects after inhalation	: Toxic if inhaled. May cause irritation to the respiratory tract. Overexposure may cause: Cough.		
-,	Headache. Nausea.		
Symptoms/effects after skin contact	: Toxic in contact with skin. Causes skin irritation.		
Symptoms/effects after eye contact	: Causes serious eye irritation.		
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.		
Reason for classification	: Expert judgment		
SECTION 12: Ecological information			
12.1. Toxicity			
Acute aquatic toxicity	: Not classified		
Chronic aquatic toxicity	: Not classified		
12.2. Persistence and degradability			
No additional information available			
12.3. Bioaccumulative potential			
No additional information available			
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessmen	nt internet in the second s		
No additional information available			
12.6. Other adverse effects Other adverse effects	. This substance may be becarded to the environment		
Other adverse effects	: This substance may be hazardous to the environment.		
SECTION 13: Disposal consideration	S		
13.1. Waste treatment methods			
Product/Packaging disposal recommendations	: May be incinerated. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.		
Ecology - waste materials	: Avoid release to the environment.		
<b>SECTION 14: Transport information</b>			
14.1. UN number			
In accordance with ADR / RID / IMDG / IATA / AD	DN		
14.1. UN number			
UN-No. (ADR)	: 3278		
UN-No. (IMDG)	: 3278		
UN-No. (IATA)	: 3278		
UN-No. (ADN)	: 3278		
UN-No. (RID)	: 3278		
14.2. UN proper shipping name			
Proper Shipping Name (ADR)	: ORGANOPHOSPHORUS COMPOUND, TOXIC, LIQUID, N.O.S.		
Proper Shipping Name (IMDG)	: ORGANOPHOSPHORUS COMPOUND, LIQUID, TOXIC, N.O.S.		
Proper Shipping Name (IATA)	: Organophosphorus compound, toxic, liquid, n.o.s.		
Proper Shipping Name (ADN)	: ORGANOPHOSPHORUS COMPOUND, LIQUID, TOXIC, N.O.S.		
Proper Shipping Name (RID)	: ORGANOPHOSPHORUS COMPOUND, LIQUID, TOXIC, N.O.S.		
Transport document description (ADR)	: UN 3278 ORGANOPHOSPHORUS COMPOUND, TOXIC, LIQUID, N.O.S.		
Transport document description (IMDO)	(DIPHENYLPHOSPHORYL AZIDE), 6.1, II, (D/E)		
Transport document description (IMDG)	: UN 3278 ORGANOPHOSPHORUS COMPOUND, LIQUID, TOXIC, N.O.S. (DIPHENYLPHOSPHORYL AZIDE), 6.1, II		
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Transport document description (IATA)	: UN 3278 Organophosphorus AZIDE), 6.1, II	compound, toxic, liquid, n.o.s. (DIPHENYLPHOSF	PHORYL
Transport document description (ADN)		ORUS COMPOUND, LIQUID, TOXIC, N.O.S.	
Transport document description (RID)	<ul> <li>UN 3278 ORGANOPHOSPHORUS COMPOUND, LIQUID, TOXIC, N.O.S. (DIPHENYLPHOSPHORYL AZIDE), 6.1, II</li> </ul>		
14.3. Transport hazard class(es)			
ADR			
Transport hazard class(es) (ADR)	: 6.1		
Danger labels (ADR)	: 6.1		
	6		
IMDG			
Transport hazard class(es) (IMDG)	: 6.1		
Danger labels (IMDG)	: 6.1		
	6		
ΙΑΤΑ			
Transport hazard class(es) (IATA)	: 6.1		
Hazard labels (IATA)	: 6.1		
	6		
ADN			
Transport hazard class(es) (ADN)	: 6.1		
Danger labels (ADN)	: 6.1		
RID			
Transport hazard class(es) (RID)	: 6.1		
Danger labels (RID)	: 6.1		
	6		
Packing group           Packing group (ADR)	: 11		
Packing group (IMDG)	:		
Packing group (IATA)	: 11		
Packing group (ADN)	: 11		
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Packing group (RID)	: 11
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: T1
Special provisions (ADR)	: 43, 274
Limited quantities (ADR)	: 100ml
Excepted quantities (ADR)	: E4
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T11
Portable tank and bulk container special provisions (ADR)	: TP2, TP27
Tank code (ADR)	: L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9, S19
Hazard identification number (Kemler No.)	: 60
Orange plates Tunnel restriction code (ADR)	60 3278 : D/E
EAC code	: 2X
APP code	: В
- Transport by sea	
Special provisions (IMDG)	: 43, 274
Limited quantities (IMDG)	: 100 ml
Excepted quantities (IMDG)	: E4
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T11
Tank special provisions (IMDG)	: TP2, TP27
EmS-No. (Fire)	: F-A
EmS-No. (Spillage) Stowage category (IMDG)	: S-A : B
Properties and observations (IMDG)	: B : Toxic if swallowed, by skin contact or by inhalation.
- Air transport	
PCA Excepted quantities (IATA)	: E4
PCA Limited quantities (IATA)	: Y641
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 654
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 662
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A4, A6, A137
ERG code (IATA)	: 6L

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<ul> <li>Inland waterway transport</li> </ul>		
Classification code (ADN)	: T1	
Special provisions (ADN)	: 43, 274, 802	
Limited quantities (ADN)	: 100 ml	
Excepted quantities (ADN)	: E4	
Equipment required (ADN)	: PP, EP, TOX, A	
Ventilation (ADN)	: VE02	
Number of blue cones/lights (ADN)	: 2	
- Rail transport		
Classification code (RID)	: T1	
Special provisions (RID)	: 43, 274	
Limited quantities (RID)	: 100ml	
Excepted quantities (RID)	: E4	
Packing instructions (RID)	: P001, IBC02	
Mixed packing provisions (RID)	: MP15	
Portable tank and bulk container instructions (RID)	: T11	
Portable tank and bulk container special provisions (RID)	: TP2, TP27	
Tank codes for RID tanks (RID)	: L4BH	
Special provisions for RID tanks (RID)	: TU15	
Transport category (RID)	: 2	
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31	
Colis express (express parcels) (RID)	: CE5	
Hazard identification number (RID)	: 60	
14.7. Transport in bulk according to Ann	ex II of Marpol and the IBC Code	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code		

Not applicable

## **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

DIPHENYLPHOSPHORYL AZIDE is not on the REACH Candidate List

DIPHENYLPHOSPHORYL AZIDE is not on the REACH Annex XIV List

DIPHENYLPHOSPHORYL AZIDE is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

DIPHENYLPHOSPHORYL AZIDE is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

### 15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)		
Netherlands			
SZW-lijst van kankerverwekkende stoffen	: The substance is not	listed	
SZW-lijst van mutagene stoffen	: The substance is not listed		
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not	listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not	listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not	listed	
Denmark			
Danish National Regulations	: Young people below	he age of 18 years are not allowed to use the product	
	Pregnant/breastfeedi product	ng women working with the product must not be in direct	contact with the
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#### 15.2. Chemical safety assessment

No additional information available

### **SECTION 16: Other information**

#### Abbreviations and acronyms:

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

#### Other information

: Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H301	Toxic if swallowed.	
H311	Toxic in contact with skin.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	

#### SDS EU (REACH Annex II) - Custom

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