



# SAFETY DATA SHEET

## DIETHYL CHLOROPHOSPHITE

Version 1, Revision: 06/05/2016

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SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
<b>Product identifiers</b>		
Product name:	Diethyl chlorophosphite	Product Code: GEO-03099 CAS-No. : 589-57-1
<b>Relevant identified uses of the substance or mixture and uses advised against</b>		
Identified uses : Laboratory chemicals, Manufacture of substances		
<b>Company Identification:</b> Georganics Ltd., Koreničova 1, 811 03 Bratislava, Slovak Republic		
Phone Number: +421 33 6403132, Fax Number: +421 33 6403133, E-mail address: georganics@georganics.sk		
<b>Emergency Number Slovakia:</b> National Toxicological Information Centre Tel: +421-2-54774166, Mob: +421 911 166 066		

SECTION 2 - HAZARDS IDENTIFICATION	
<b>Classification of the substance or mixture</b>	
<b>Classification according to Regulation (EC) No 1272/2008</b>	
Flammable liquids (Category 2), H225	
Skin corrosion (Category 1B), H314	
Specific target organ toxicity - single exposure (Category 3), H335	
<b>Classification according to EU Directives 67/548/EEC or 1999/45/EC</b>	
F, C Highly flammable, Corrosive R11, R14, R34, R37	
<b>Label elements</b>	
Labelling according Regulation (EC) No 1272/2008	
<b>GHS pictogram:</b>	H225 - Highly flammable liquid and vapour.
	H314 - Causes severe skin burns and eye damage
	H335 - May cause respiratory irritation.
	P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
	P280 - Wear protective gloves/protective clothing/eye protection/face protection
	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
<b>Signal word:</b>	P310 - Immediately call a POISON CENTER or doctor/physician.
<b>Danger</b>	Supplemental Hazard information (EU)
	EUH014 - Reacts violently with water.

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS					
Synonyms	Formula	Molecular Weight	Assay (%)	CAS#	EC-No.
Diethyl chlorophosphite	C4H10ClO2P	156,55 g/mol	-	589-57-1	209-652-2

SECTION 4 - FIRST AID MEASURES	
<b>Eyes:</b>	Rinse opened eye for at least 15 minutes under running water. Get medical aid.
<b>Skin:</b>	Instantly wash with water and soap and rinse thoroughly. Get medical aid.
<b>Ingestion:</b>	Get medical aid. Wash mouth out with water.
<b>Inhalation:</b>	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If required, provide artificial respiration. Get medical aid.

SECTION 5 - FIRE FIGHTING MEASURES	
<b>Suitable extinguishing agents</b>	Dry powder
<b>Protective equipment:</b>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin/eyes.
<b>Unusual fire and explosions hazards:</b>	During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion.

SECTION 6 - ACCIDENTAL RELEASE MEASURES	
<b>Person-related safety precautions:</b>	Wear protective equipment as indicated in section 8. Ensure adequate ventilation. Avoid dust formation.
<b>Environmental precautions</b>	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash spill site after material pickup is complete.
<b>Additional information:</b>	Do not let this chemical enter the environment.
	See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

SECTION 7 - HANDLING AND STORAGE	
<b>Handling:</b>	Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Ensure adequate ventilation.
<b>Storage:</b>	Store in a dry, cool and well ventilated place. Keep container closed when not in use. Keep away from heat/open flames. Never allow product to get in contact with water during storage. Extremes of temperature and direct sunlight. Exposure to moisture. Recommended storage temperature: 2 - 8 °C. See Section 10 for stability and reactivity information.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Engineering Controls:</b>	Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels. Safety shower and eye bath.
<b>Personal Protective Equipment</b>	
<b>Eyes:</b>	Wear chemical safety glasses.
<b>Skin:</b>	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective work clothing.
<b>Respirators:</b>	Use breathing protection with high concentrations.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form:</b>	Liquid	<b>Flash Point:</b>	1 °C - closed cup
<b>Color:</b>	Clear colorless	<b>Specific Gravity/Density:</b>	Not available
<b>Boiling Point:</b>	56 - 57,5 °C at 40 hPa - lit.	<b>Molecular Formula:</b>	C4H10ClO2P
	153 - 155 °C - lit.		
<b>Freezing/Melting Point:</b>	Not available	<b>Molecular Weight:</b>	156,55

**SECTION 10 - STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Incompatible Materials:</b>	Strong oxidizing agents, strong bases
<b>Conditions to avoid:</b>	Incompatible products, heat, flames and sparks, extremes of temperature and direct sunlight, exposure to moisture.
<b>Hazardous Decomposition Products:</b>	Carbon oxides, Oxides of phosphorus, Hydrogen chloride gas

**SECTION 11 - TOXICOLOGICAL INFORMATION**

<b>Carcinogenicity:</b>	There are no known carcinogenic chemicals in this product. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
<b>Potential Health Effects:</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation may cause respiratory irritation. May be harmful if inhaled, swallowed or absorbed through skin. May causes serious eye irritation.
<b>Other:</b>	The toxicological properties have not been fully investigated.

**SECTION 12 - ECOLOGICAL INFORMATION**

No data available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in a manner consistent with federal, state, and local regulations.

**SECTION 14 - TRANSPORT INFORMATION**

	<b>IATA</b>	<b>IMDG/IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S.	FLAMMABLE LIQUID, CORROSIVE, N.O.S.	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
<b>Hazard Class:</b>	3 (8)	3 (8)	3 (8)
<b>UN Number:</b>	2924	2924	2924
<b>Packing Group:</b>	II	II	II

**SECTION 15 - REGULATORY INFORMATION****This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.**

Canadian DSL/NDSL	CAS# 589-57-1 is listed on Canada's DSL or NDSL List.
US Federal TSCA	CAS# 589-57-1 is listed on the TSCA Inventory. It is for research and development use only.

**SECTION 16 - OTHER INFORMATION****WARRANTY**

*The information contained in the SDS are compiled according to the present knowledge of the manufacturer. It does not represent any guarantee of the properties of the product. SDS shall be used only as a guide. Georganics Ltd. is not liable for damages incurred in the handling or contact with chemicals.*