eorganics	DIETHYL (CHLOROPHOSPH	ITE	
	SAFETY DATA SHEET (ac	cording to Regulation (EC) No	o. 1907/2006/EC)	
VERSION 1.1, REVI		()	GEO-03099	PAGE 1/4
	ENTIFICATION OF THE SUBSTAN	CE/MIXTURE AND OF THE	COMPANY/UNDERT	
1.1 Product identifiers				
Product name: Diethyl	chlorophosphite	EC number: 209-652-2		
CAS-No.: 589-57-1		Product Code: GEO-0309	9	
	uses of the substance or mixture and			
	poratory chemicals, Manufacture of sub	stances		
	ier of the safety data sheet:			
	oreničova 1, 811 03 Bratislava, Slovak			
	21 33 6403132, E-mail address: georgan			
1.4 Emergency telepho	ne number: National Toxicological In		4774166, Mob: +421 911	166 066
		ARDS IDENTIFICATION		
2.1 Classification of the				
	ccording to Regulation (EC) No 1272			
	Category 2) H225: Highly flammable li			
	category 1B) H314: Causes severe skin			
	toxicity - H335: May cause respiratory	irritation.		
single exposure, (Cate	egory 3),			
Respiratory system	Respiratory system			
2.1.2 Additional info	mation: For full text of Hazard- and E	U Hazard-statements: see SECT	ION 16.	
2.2 Label elements				
Labelling accor	ding Regulation (EC) No 1272/2008			
Hazard pictogram:	Hazard statements:			
	H225-Highly flammable liquid and			
	H314-Causes severe skin burns and	eye damage.		
	H335-May cause respiratory irritation	n.		
	Precautionary statements:			
	P210-Keep away from heat/sparks/o	pen flames/hot surfaces. — No s	moking.	
	P233-Keep container tightly closed.			
Signal word:	P240-Ground/bond container and re			
Danger	1200-wear protective gloves/protective clothing/eye protection/face protection.			
Danger	1 505 1 501 1 555 If ON SKIN (of hall). Remove Take on inimediately an containinated clothing. Rinse s			
	with water/shower.		1	1
	P305+P351+P338-IF IN EYES: Rin		ral minutes. Remove con	itact lenses, if
	present and easy to do. Continue rin			
	Supplemental Hazard information		• , , 1•	1
2.3 Other hazards	This substance/mixture contains no			lative and toxic
	(PBT), or very persistent and very b	oaccumulative (vPvB) at levels	of 0.1% or higher.	
l				

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS				
3.1 Substances				
Identification numbers	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008	SCL / M-factor / ATE
CAS: 589-57-1 EC: 209-652-2	Diethyl chlorophosphite	<= 100%	H225;H314;H335	-

SECTION 4 - FIRST AID MEASURES			
4.1 Description of first aid measures			
General notes	Consult a physician. Show this safety data sheet to the doctor in attendance.		
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.		
In case of skin contact	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.		
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.		
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with		
	water. Consult a physician.		
4.2 Most important symptoms and effects, both acute and delayed			
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11			
4.3 Indication of any immediate medical attention and special treatment needed			
No data available			

SECTION 5 - FIREFIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide (CO2) Dry powder.

Unsuitable extinguishing media: Water Foam.

5.2 Special hazards arising from the substance or mixture - During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion.

5.3 Advice for firefighters - Wear self-contained breathing apparatus and protective clothing to prevent contact with skin/eyes.
5.4 Further information - Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures - Wear protective equipment. Ensure adequate ventilation. Keep unprotected persons away. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash spill site after material pickup is complete.
6.2 Environmental precautions - Prevent further leakage or spillage if safe to do so. Do not let this chemical enter the environment.
6.3 Methods and materials for containment and cleaning up – Spilled product should be covered with suitable (non-flammable) absorbing material. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation
6.4 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 information on disposal.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling – For precautions see section 2.2.

Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Ensure adequate ventilation. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities - Store in a dry, cool and well-ventilated place. Keep container closed when not in use. See Section 10 for stability and Vapors may form explosive mixture with air. information. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Never allow product to get in contact with water during storage. Recommended storage temperature $2 - 8 \,^{\circ}C$

7.3 Specific end use(s) - No further relevant information available

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION		
8.1 Control parameters		
8.2 Exposure controls		
Engineering Controls:	Use process enclosure, local exhaust ventilation, or other engineering controls to control	
	airborne levels. Safety shower and eye bath.	
Personal Protective Equipment		
Eye and face protection:	Wear chemical safety glasses.	
Skin protection: Wear appropriate protective gloves and clothing to prevent skin exposure.		
Respiratory protection: Wear appropriate protective mask with a filter against organic vapors.		
Thermal hazard:	No data available	
Environmental exposure controls:	Do not let product enter drains.	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical a	nd chemical properties		
Physical state:	Liquid	Decomposition temperature:	No data available
Color:	Clear colorless	pH:	No data available
Odor:	No data available	Kinematic viscosity:	No data available
Freezing/Melting Point:	56 - 57,5 °C at 40 hPa - lit. °C	Solubility:	No data available
Boiling Point:	No data available	Partition coefficient n- octanol/water (log value):	No data available
Flammability:	No data available	Vapor pressure:	No data available
Lower and upper explosion limit:	No data available	Density and/or relative density:	No data available
Flash Point:	1 °C - closed cup °C	Relative vapor density:	No data available
Auto-ignition temperature:	No data available	Particle characteristics:	No data available
9.2 Other safety information - No data available			

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity - Vapors may form explosive mixture with air.

10.2 Chemical stability - Sensitive to moisture

10.3 Possibility of hazardous reactions - No data available

10.4 Conditions to avoid - Do not allow water to enter container because of violent reaction. Warming. Moisture.

10.5 Incompatible materials - Strong oxidizing agents, Strong bases.

10.6 Hazardous decomposition products -

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SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - No data available

Skin irritation or corrosion - Causes skin irritation

Serious eye damage / irritation - Causes serious eye irritation.

Respiratory or skin sensitization - No data available

Germ cell mutagenicity - No data available

Carcinogenicity - No data available

Reproductive toxicity - No data available

Specific target organ system toxicity (STOT) - repeated exposure: No data available

Specific target organ system toxicity (STOT) - single exposure: No data available

11.2 Additional Information - To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Other dangerous properties cannot be excluded. This substance should be handled with particular care.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity - No data available

12.2 Persistence and degradability - No data available

12.3 Bioaccumulative potential - No data available

12.4 Mobility in soil - No data available

12.5 Results of PBT and vPvB assessment - This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties - No data available

12.7 Other adverse effects - No data available

12.8 Additional information - No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal. The product must not be disposed of with municipal waste.

Contaminated packaging

Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION						
14.1 UN number:	ADR/RID: 2924	IMDG: 2924	IATA: 2924			
14.2 UN proper shipping r	14.2 UN proper shipping name:					
ADR/RID: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Diethyl chlorophosphite)						
IMDG: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Diethyl chlorophosphite)						
IATA: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Diethyl chlorophosphite)						
14.3 Transport hazard class(es)						
	ADR/RID: 3 (8)	IMDG: 3 (8)	IATA: 3 (8)			
14.4 Packing group						
	ADR/RID: II	IMDG: II	IATA: II			
14.5 Environmental hazards						
	ADR/RID: no	IMDG Marine pollutant: no	IATA: no			
14.6 Special precautions for user: No data available						
14.7 Maritime transport in bulk according to IMO instruments - No data available						

SECTION 15 - REGULATORY INFORMATION

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2 Chemical safety assessment - No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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SECTION 16 - OTHER INFORMATION

Key to abbreviations and acronyms used in the safety data sheet ATE - Acute Toxicity Estimate Kow - octanol-water partition coefficient ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road LC50 - Lethal Concentration to 50 % of a test population ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose) CEN - European Committee for Standardisation LE - Legal Entity LoW - List of Wastes C&L - Classification and Labelling (http://ec.europa.eu/environment/waste/framework/list.htm) CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 LR - Lead Registrant CAS# - Chemical Abstracts Service number M/I - Manufacturer / Importer CMR - Carcinogen, Mutagen, or Reproductive Toxicant MS - Member States CSA - Chemical Safety Assessment MSDS - Material Safety Data Sheet CSR - Chemical Safety Report OC - Operational Conditions OECD - Organization for Economic Co-operation and Development DNEL - Derived No Effect Level DPD - Dangerous Preparations Directive 1999/45/EC OEL - Occupational Exposure Limit OJ - Official Journal DSD - Dangerous Substances Directive 67/548/EEC DU - Downstream User OR - Only Representative OSHA - European Agency for Safety and Health at work EC - European Community ECHA - European Chemicals Agency PBT - Persistent, Bioaccumulative and Toxic substance EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS) PEC - Predicted Effect Concentration EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway) PNEC(s) - Predicted No Effect Concentration(s) PPE - Personal Protection Equipment EEC - European Economic Community EINECS - European Inventory of Existing Commercial Substances (Q)SAR - Qualitative Structure Activity Relationship REACH - Registration, Evaluation, Authorisation and Restriction of ELINCS - European List of notified Chemical Substances Chemicals Regulation (EC) No 1907/2006 RID - Regulations concerning the International Carriage of Dangerous EN - European Standard Goods by Rail RIP - REACH Implementation Project EQS - Environmental Quality Standard EU - European Union RMM - Risk Management Measure SCBA - Self-Contained Breathing Apparatus Euphrac - European Phrase Catalogue EWC - European Waste Catalogue (replaced by LoW - see below) SDS - Safety data sheet SIEF - Substance Information Exchange Forum GES - Generic Exposure Scenario GHS - Globally Harmonized System SME - Small and Medium sized Enterprises STOT - Specific Target Organ Toxicity IATA - International Air Transport Association ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air (STOT) RE - Repeated Exposure (STOT) SE - Single Exposure IMDG - International Maritime Dangerous Goods IMSBC - International Maritime Solid Bulk Cargoes SVHC - Substances of Very High Concern UFI - Unique Formula Identifier IT - Information Technology IUCLID - International Uniform Chemical Information Database UN - United Nations vPvB - Very Persistent and Very Bioaccumulative IUPAC - International Union for Pure Applied Chemistry JRC - Joint Research Centre

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.