eo	rga	nics
	- 8-	11100

ETHYL ISOCYANOACETATE

	SAFETY DATA SHEE	T (according to Regulation	on (EC) No. 1907/2006/	EC)
Version 1, Revision: 26-		1 (according to 1108 and 10	GEO-(
	SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
1.1 Product identifiers				
Product name: Ethyl	isocyanoacetate	EC number: 2	21-077-9	
CAS-No.: 2999-46-4	·	Product Code	: GEO-01356	
	uses of the substance or mixture			
	oratory chemicals, Manufacture of	f substances		
	er of the safety data sheet:			
	reničova 1, 811 03 Bratislava, Slov			
	1 33 6403132, E-mail address: geo		101 0 51771166 34 1	421 011 166 066
1.4 Emergency telephon	ne number: National Toxicologica	al Information Centre, Tel: -	+421-2-54774166, Mob: +	421 911 166 066
	SECTION 2	- HAZARDS IDENTIFICA	ATION	
2.1 Classification of the				
	cording to Regulation (EC) No 1			
	ory 4) H302: Harmful if swallowe	ed.		
Acute toxicity, (Categ	ory 4) H332: Harmful if inhaled.			
010AJ24814 P	motions Forfull (. (. (II	ad THI Hanad statement	A SECTION 16	
2.1.2 Additional infor	mation: For full text of Hazard- a	nd EU Hazard-statements: s	ee SECTION 16.	
	ding Regulation (EC) No 1272/200	00		
Hazard pictogram:	Hazard statements:	08		
mazaru pictogram.	H302-Harmful if swallowed.			
	H332-Harmful if inhaled.			
	11352 Harmon II Innaida.			
	Precautionary statements:			
Signal word:	P261-Avoid breathing dust/fum	e/gas/mist/vapours/spray.		
Warning	P264-Wash thoroughly after			
	P271-Use only outdoors or in a well-ventilated area.			
	P301+P312-IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.			
	P304+P340+P312-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a			
	POISON CENTER/doctor if you feel unwell.			
P501-Dispose of contents/ container to an approved waste disposal plant.				
	Supplemental Hazard informa	tion (FII). Not applicable		
2.3 Other hazards	This substance/mixture contains		to be either persistent bio	accumulative and toxic
2.5 Other hazarus	(PBT), or very persistent and ve			
	(1 2 1), or very persistent and ve		at levels of 0.170 of higher	. •
		TION INFORMATION		
2 1 Substances	SECTION 3 - COMPOSI	TION, INFORMATION (DN INGKEDIENTS	
3.1 Substances	1		Classification	
Identification			according to	SCL / M-factor /
numbers	Substance name	Concentration	Regulation (EC) No	ATE
numbers			1272/2008	AIL
	<u> </u>		12/2000	Į]

SECTION 4 - FIRST AID MEASURES

<= 100%

H302;H332;

-

4.1 Description of first aid	d 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 imm	nediate medical attention and special treatment needed	

4.3 Indication of any immediate medical attention and special treatment needed

Ethyl isocyanoacetate

No data available

CAS: 2999-46-4

EC: 221-077-9

SECTION 5 - FIREFIGHTING MEASURES

Page 2/4

5.1 Extinguishing media

Suitable extinguishing media: Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media:

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 reactivity information. Tightly closed.Recommended storage temperature 2 - 8 °C Store under inert gas. Light sensitive. Moisture sensitive.

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:	dark brown	pH:	No data available
Odor:	No data available	Kinematic viscosity:	No data available
Freezing/Melting Point:	No data available	Solubility:	No data available
Boiling Point:	194 - 196 °C - lit.	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:	1,035 g/mL at 25 °C - lit.
Flash Point:	84 °C - closed cup	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 - No data available

10.2 Chemical stability - The product is chemically stable under standard ambient conditions (room temperature)

10.3 Possibility of hazardous reactions - No data available

10.4 Conditions to avoid - Exposure to light may affect product quality. Strong heating.

10.5 Incompatible materials - Strong oxidizing agents, strong bases

10.6 Hazardous decomposition products -

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.

Page 3/4

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity - No data available

GEO-01356

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 - TRANS	PORT INFORMATION	
14.1 UN number:	ADR/RID: -	IMDG: -	IATA: -
14.2 UN proper shipping name:			
ADR/RID: Not dangerous good			
IMDG: Not dangerous good			
IATA: Not dangerous good			
14.3 Transport hazard class(es)			
	ADR/RID: -	IMDG: -	IATA: -
14.4 Packing group			
	ADR/RID: -	IMDG: -	IATA: -
14.5 Environmental hazards			
	ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6 Special precautions for user	r: 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.

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
DNEL - Derived No Effect Level	OECD - Organization for Economic Co-operation and Development
DPD - Dangerous Preparations Directive 1999/45/EC	OEL - Occupational Exposure Limit
DSD - Dangerous Substances Directive 67/548/EEC	OJ - Official Journal
DU - Downstream User	OR - Only Representative
EC - European Community	OSHA - European Agency for Safety and Health at work
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)
EEC - European Economic Community	PPE - Personal Protection Equipment
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 Dangero
EN - European Standard	Goods by Rail
EQS - Environmental Quality Standard	RIP - REACH Implementation Project
EU - European Union	RMM - Risk Management Measure
Euphrac - European Phrase Catalogue	SCBA - Self-Contained Breathing Apparatus
EWC - European Waste Catalogue (replaced by LoW – see below)	SDS - Safety data sheet
GES - Generic Exposure Scenario	SIEF - Substance Information Exchange Forum
GHS - Globally Harmonized System	SME - Small and Medium sized Enterprises
IATA - International Air Transport Association	STOT - Specific Target Organ Toxicity
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air	(STOT) RE - Repeated Exposure
IMDG - International Maritime Dangerous Goods	(STOT) SE - Single Exposure
IMSBC - International Maritime Solid Bulk Cargoes	SVHC - Substances of Very High Concern
IT - Information Technology	UFI - Unique Formula Identifier
IUCLID - International Uniform Chemical Information Database	UN - United Nations
IUPAC - International Union for Pure Applied Chemistry	vPvB - Very Persistent and Very Bioaccumulative
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.