

1,2,7,8-DIEPOXYOCTANE

SAFETY DATA SHEET (according to Regulation (EC) No. 1907/2006/EC)

Version 1.1, Revision: (02-05-2024 GEO-01029 Page 1/			
	DENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
1.1 Product identifiers				
Product name: 1,2,7				
CAS-No.: 2426-07-5 Product Code: GEO-01029				
1.2 Relevant identified	1.2 Relevant identified uses of the substance or mixture and uses advised against			
Identified uses: La	boratory chemicals, Manufacture of substances			
1.3 Details of the suppl	lier of the safety data sheet:			
Georganics Ltd., K	oreničova 1, 811 03 Bratislava, Slovak Republic			
Phone Number: +42	21 33 6403132, E-mail address: georganics@georganics.sk			
1.4 Emergency telepho	one number: National Toxicological Information Centre, Tel: +421-2-54774166, Mob: +421 911 166 066			
	SECTION 2 - HAZARDS IDENTIFICATION			
2.1 Classification of th	e substance or mixture			
2.1.1 Classification a	according to Regulation (EC) No 1272/2008 (CPL)			
Acute toxicity, Oral ((Category 4), H302			
Acute toxicity, Derm	nal (Category 3), H311			
Germ cell mutagenic	tity (Category 2), H341			
Carcinogenicity (Cate	egory 1B), H350			
2.1.2 Additional info	ormation: For full text of Hazard- and EU Hazard-statements: see SECTION 16.			
2.2 Label elements				
Labelling acco	ording Regulation (EC) No 1272/2008			
Hazard pictogram:	Hazard statements:			
	H302-Harmful if swallowed.			
	H311-Toxic in contact with skin.			
$\wedge \wedge$	H341-Suspected of causing genetic defects state route of exposure if it is conclusively proven that no other			
	routes of exposure cause the hazard.			
	H350-May cause cancer state route of exposure if it is conclusively proven that no other routes of exposure			
Signal word:	cause the hazard.			
Danger	Precautionary statements:			
	P202-Do not handle until all safety precautions have been read and understood.			
	P264-Wash thoroughly after handling.			
	P280-Wear protective gloves/protective clothing/eye protection/face protection.			
	P301+P312-IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.			
	P302+P352+P312-IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel			
	unwell.			
	P308+P313-IF exposed or concerned: Get medical advice/attention.			
	Supplemental Hazard information (EU): Not applicable			
2.3 Other hazards	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.			

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: 2426-07-5 EC: 219-375-9	1,2,7,8-Diepoxyoctane	<= 100%	H302;H311;H341;H350;	-

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid	l 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 symp	toms 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	ediate medical attention and special treatment needed		
NT. 1.4 1.1.1.			

No data available

SECTION 5 - FIREFIGHTING MEASURES

5.1 Extinguishing media Suitable extinguishing media: Unsuitable extinguishing media:

Carbon dioxide (CO2) Foam Dry powder

uishing media: -For this substance/mixture no limitations of extinguishing agents are given.

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. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

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 3 - I ITISICAL AND CHEMICAL I KOI EKTIES				
9.1 Information on basic physical and chemical properties				
Physical state:	Liquid	Decomposition temperature:	No data available	
Color:	colorless to slightly yellow	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:	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:	No data available	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 9 - PHYSICAL AND CHEMICAL PROPERTIES

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 - Strong heating.

10.5 Incompatible materials - No data available

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.

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: 2810	IMDG: 2810	IATA: 2810	
14.2 UN proper shipping a	name:			
ADR/RID: TOXIC LIQUID, ORGANIC, N.O.S. (1,2,7,8-Diepoxyoctane)				
IMDG: TOXIC LIQUID, ORGANIC, N.O.S. (1,2,7,8-Diepoxyoctane)				
IATA: TOXIC LIQUID, ORGANIC, N.O.S. (1,2,7,8-Diepoxyoctane)				
14.3 Transport hazard class(es)				
	ADR/RID: 6.1	IMDG: 6.1	IATA: 6.1	
14.4 Packing group				
	ADR/RID: III	IMDG: III	IATA: III	
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 (EC) 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.

JRC - Joint Research Centre

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) 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 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 (STOT) RE - Repeated Exposure ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air (STOT) SE - Single Exposure IMDG - International Maritime Dangerous Goods SVHC - Substances of Very High Concern IMSBC - International Maritime Solid Bulk Cargoes 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

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.