

1,5-PENTANE DIISOCYANATE

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

Version 1, Revision: 11.06.2019

GEO-03739

Page 1/3

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product name: 1,5-Pentane diisocyanate Product Code: GEO-03739 CAS-No. : 4538-42-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Company Identification: 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

1.4 Emergency Number Slovakia: National Toxicological Information Centre Tel: +421-2-54774166, Mob: +421 911 166 066

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4, H302 Skin Corr. 1, H314 Skin Sens. 1, H317 Eye Dam. 1, H318	Acute Tox. 1, H330 Resp. Sens. 1, H334 STOT SE 3, H335
--	--

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

GHS pictogram:



Signal word:

Danger

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage

H330 - Fatal if inhaled.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 - May cause respiratory irritation.

P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

P284 - Wear respiratory protection.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/ physician.

2.3 Other hazards

None

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	Formula	Molecular Weight	CAS#	EC-No.
	C7H10N2O2	154.17g/mol	4538-42-5	807-040-5
Hazardous ingredients according to Regulation (EC) No 1272/2008				
Component	Classification		Concentration	
1,5-Pentane diisocyanate				
CAS#: 4538-42-5	Acute Tox. 4, H302; Skin Corr. 1, H314; Skin Sens. 1, H317; Eye Dam. 1 H318; Acute Tox. 1, H330; Resp. Sens. 1, H334; STOT SE 3, H335		<= 100%	
EC-No: 807-040-5				

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

General advice

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 - FIRE-FIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing agents Dry chemical powder or carbon dioxide, alcohol resistant 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.

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/ vapours/ 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 – 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 - Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Ensure adequate ventilation.

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.

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

Eyes: Wear chemical safety glasses.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective work clothing.

Respirators: Use breathing protection with high concentrations.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Form: Liquid

Color: Clear colorless to yellow

Boiling Point: 105°C/4mmHg

Freezing/Melting Point: Not available

Flash Point: Not available

Refractive index: 1,4515-1,4545 (20°C, 589nm)

Molecular Formula: C7H10N2O2

Molecular Weight: 154.17

9.2 Other safety information - Not available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity - No information known.

10.2 Chemical stability - Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions - Not available

10.4 Conditions to avoid - Incompatible products

10.5 Incompatible materials - Strong oxidizing agents

10.6 Hazardous decomposition products - Carbon monoxide and carbon dioxide, Nitrogen oxides (NO_x)

SECTION 11 - TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity** - No data**LD/LC50 values that are relevant for classification** - No data**Skin irritation or corrosion** - Causes severe skin burns and eye damage, May cause an allergic skin reaction**Eye irritation or corrosion** - Causes severe skin burns and eye damage, Causes serious eye damage**Sensitization** - No sensitizing effect known.**Germ cell mutagenicity** - No data**Carcinogenicity** - No classification data on carcinogenic properties of this material is available from the RTECS, IARC.**Reproductive toxicity** - No effects known.**Specific target organ system toxicity - repeated exposure:** No effects known.**Specific target organ system toxicity - single exposure:** May cause respiratory irritation.**Aspiration hazard** - No effects known.**Subacute to chronic toxicity** - No effects known.**Additional toxicological information** - The toxicological properties have not been fully investigated.**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** - PBT/vPvB Not applicable.**12.6 Other adverse effects** - 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

Contaminated packaging

Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION**14.1 UN number:** ADR/RID: 2927 IMDG: 2927 IATA: 2927**14.2 UN proper shipping name:**

ADR/RID: TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (1,5-Pentane diisocyanate)

IMDG: TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (1,5-Pentane diisocyanate)

IATA: TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (1,5-Pentane diisocyanate)

14.3 Transport hazard class(es)

ADR/RID: 6.1 (8)

IMDG: 6.1 (8)

IATA: 6.1 (8)

14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental hazards**SECTION 15 - REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** - This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.**15.2 Chemical safety assessment** - For this product a chemical safety assessment was not carried out**SECTION 16 - OTHER INFORMATION***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.*