

# SAFETY DATA SHEET

### Diethylenetriamine pentaacetic acid

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

1.1. Product identifier	
Product name	Diethylenetriamine pentaacetic acid
Product number	69522692
Synonyms; trade names	N-carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid)
CAS number	67-43-6
EU index number	607-735-00-1
EC number	200-652-8
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
Identified uses	For research purposes only.
Uses advised against	No specific uses advised against are identified.
1.3. Details of the supplier of the safety data sheet	
Supplier	Molekula Ltd. Lingfield Way, Darlington, DL1 4XX, United Kingdom +44 (0) 3302000333 info@molekula.com
1.4. Emergency telephone nur	nber
+44 (0) 7769276927	
SECTION 2: Hazards identification	ation
2.1. Classification of the subst	ance or mixture
Classification (SI 2019 No. 720	±
Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H332 Eye Irrit. 2 - H319 STOT RE 2 - H373
Environmental hazards	Not Classified
2.2. Label elements	
EC number	200-652-8
Hazard pictograms	Denser
Signal word	Danger

Hazard statements	H332 Harmful if inhaled. H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	<ul> <li>P260 Do not breathe dust.</li> <li>P261 Avoid breathing dust.</li> <li>P264 Wash contaminated skin thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P312 Call a POISON CENTRE/doctor if you feel unwell.</li> <li>P314 Get medical advice/ attention if you feel unwell.</li> <li>P337+P313 If eye irritation persists: Get medical advice/ attention.</li> <li>P501 Dispose of contents/ container in accordance with national regulations.</li> </ul>

#### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current UK criteria.

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Product name	Diethylenetriamine pentaacetic acid	
EU index number	607-735-00-1	
CAS number	67-43-6	
EC number	200-652-8	
Chemical formula	C14H23N3O10	
SECTION 4: First aid measures		
4.1. Description of first aid measures		
General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.	
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.	
Ingestion	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.	
Skin contact	Rinse with water.	
Eye contact	Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.	
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.	
4.2. Most important symptoms and effects, both acute and delayed		
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	

Inhalation	A single exposure may cause the following adverse effects: Headache. Exhaustion and weakness.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	Irritating to eyes.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising fr	om the substance or mixture
Specific hazards	This product is toxic.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of nitrogen. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Forms explosive mixtures with air on intense heating.
5.3. Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures	
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid inhalation of dust. Use suitable respiratory protection if ventilation is inadequate.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills
	immediately and dispose of waste safely. Provide adequate ventilation. Collect spillage with a
	shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste
	disposal containers and seal securely. Flush contaminated area with plenty of water. Wash
	thoroughly after dealing with a spillage. For waste disposal, see Section 13.

#### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

#### SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage	e, including any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.
Storage class	Chemical storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure controls	/Personal protection
8.1. Control parameters 8.2. Exposure controls	

Protective equipment



Appropriate engineering controls	Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full- face respirator may be required instead.
Hand protection	No specific hand protection recommended.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'- marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Appearance	Crystalline powder.	
Colour	White.	
Odour	Not known.	
Odour threshold	No information available.	
рН	pH (diluted solution): 2.5 10g/l (23°C/73.4°F)	
Melting point	219-220°C/426.2-428°F	
Initial boiling point and range	No information available.	
Flash point	200°C/392°F	
Evaporation rate	No information available.	
Flammability (solid, gas)	No information available.	
Upper/lower flammability or explosive limits	No information available.	
Vapour pressure	< 0.0000001 kPa @ 25°C/77°F	
Vapour density	No information available.	
Relative density	1.5	
Solubility(ies)	Slightly soluble in water.	
Partition coefficient	log Pow: -4.91	
Auto-ignition temperature	(1,013 hpa) 387-397°C/728.6-566.6°F	
Decomposition Temperature	No information available.	
9.2. Other information		
Molecular weight	393.35	
SECTION 10: Stability and reactivity		
10.1. Reactivity		
Reactivity	See the other subsections of this section for further details.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the	

prescribed storage conditions.

Possibility of hazardous reactions	Violent reactions possible with: Strong oxidising agents. Strong acids. Strong alkalis.
10.4. Conditions to avoid	
Conditions to avoid	Avoid heat.
10.5. Incompatible materials	
Materials to avoid	Strong oxidising agents.
10.6. Hazardous decomposit	tion products
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of nitrogen. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Forms explosive mixtures with air on intense heating.
SECTION 11: Toxicological i	nformation
11.1. Information on toxicolog	gical effects
Acute toxicity - oral	
Summary	Based on available data the classification criteria are not met.

### 10.3. Possibility of hazardous reactions

Ourrinary	based on available data the classification citteria are not met.
Acute toxicity - dermal	Based on available data the classification criteria are not met.
Summary	based on available data the classification chieffa are not met.
Acute toxicity - inhalation	
Summary	Harmful if inhaled.
Acute toxicity inhalation (LC₅₀ dust/mist mg/l)	1.5
ATE inhalation (dusts/mists mg/l)	1.5
Skin corrosion/irritation	
Summary	Based on available data the classification criteria are not met.
Serious eye damage/irritation	
Summary	Causes serious eye irritation.
Respiratory sensitisation	
Summary	Based on available data the classification criteria are not met.
Skin sensitisation	
Summary	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Summary	Based on available data the classification criteria are not met.
Carcinogenicity	

Summary	Based on available data the classification criteria are not met.	
IARC carcinogenicity	None of the ingredients are listed or exempt.	
Reproductive toxicity		
Summary	Based on available data the classification criteria are not met.	
Specific target organ toxicity -	single exposure	
Summary	Based on available data the classification criteria are not met.	
Specific target organ toxicity - repeated exposure		
Summary	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard		
Summary	Not relevant. Solid.	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	A single exposure may cause the following adverse effects: Headache. Exhaustion and weakness.	
Ingestion	May cause discomfort if swallowed.	
Skin contact	Prolonged contact may cause dryness of the skin.	
Eye contact	Irritating to eyes.	
Route of exposure	Ingestion Inhalation Skin and/or eye contact	
<b>T</b>		
Target organs	No specific target organs known.	
SECTION 12: Ecological infor		
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### Diethylenetriamine pentaacetic acid

#### **SECTION 13: Disposal considerations**

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13.1. Waste treatment me	ethods
General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.
SECTION 14: Transport i	nformation

#### Transport informa

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

#### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

### **SECTION 15: Regulatory information**

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

National regulations Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

**EU - EINECS/ELINCS** 

None of the ingredients are listed or exempt.

SECTION 16: Other information		
Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). EC <sub>50</sub> : 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.	
Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Eye Irrit. = Eye irritation STOT RE = Specific target organ toxicity-repeated exposure	
Classification procedures according to SI 2019 No. 720	Acute Tox. 4 - H332: STOT RE 2 - H373: Eye Irrit. 2 - H319: : Expert judgement.	
Training advice	Only trained personnel should use this material.	
Revision date	21/04/2022	
Revision	1	
SDS number	908	
Hazard statements in full	H319 Causes serious eye irritation. H332 Harmful if inhaled. H373 May cause damage to organs through prolonged or repeated exposure.	

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.