

SAFETY DATA SHEET

Diphenyl Acetic Acid

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

SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	Diphenyl Acetic Acid
CAS number	117-34-0
EC number	204-185-0
1.2. Relevant identified uses	of the substance or mixture and uses advised against
Identified uses	Research and development.
Uses advised against	Not suitable for human consumption or veterinary purposes.
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 n	umber
+44 (0) 7769276927	
SECTION 2: Hazards identifi	cation
2.1. Classification of the subs	
	stance or mixture
Classification (SI 2019 No. 7	20)
Classification (SI 2019 No. 7	20)
Classification (SI 2019 No. 7) Physical hazards	20) Not Classified Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 -
Classification (SI 2019 No. 7 Physical hazards Health hazards	20) Not Classified Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
Classification (SI 2019 No. 7) Physical hazards Health hazards Environmental hazards	20) Not Classified Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
Classification (SI 2019 No. 7) Physical hazards Health hazards Environmental hazards 2.2. Label elements	20) Not Classified Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Chronic 3 - H412
Classification (SI 2019 No. 7) Physical hazards Health hazards Environmental hazards <u>2.2. Label elements</u> EC number	20) Not Classified Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Chronic 3 - H412

Hazard statements	H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	 P261 Avoid breathing dust. P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P501 Dispose of contents/ container in accordance with national regulations.

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	Diphenyl Acetic Acid
CAS number	117-34-0
EC number	204-185-0
Chemical formula	(C6H5)2CHCO2H
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. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention if symptoms are severe or persist.
Skin contact	It is important to remove the substance from the skin immediately. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention.
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

Diphenyl Acetic Acid

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. Stomach pain. Nausea, vomiting. Skin contact Redness. Irritating to skin. Eye contact Irritating to eyes. 4.3. Indication of any immediate medical attention and special treatment needed Notes for the doctor Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media Combustible Dust Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media 5.2. Special hazards arising from the substance or mixture Specific hazards This product is toxic. Hazardous combustion Thermal decomposition or combustion products may include the following substances: Toxic products gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO2). 5.3. Advice for firefighters Protective actions during Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of firefighting 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. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus Special protective equipment for firefighters (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

6.2. Environmental precautions

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

inadequate. Avoid contact with skin and eyes.

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. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.	
6.4. Reference to other section	<u>s</u>	
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 stor	age	
7.1. Precautions for safe handl	ing	
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. Avoid discharge to the aquatic environment. 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, 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	Combustible solids that can not be assigned to any of the aforementioned LGK	
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

Eye/face protection



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.

Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection	Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of 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	Yellow-white.	
Odour	Not known.	
Odour threshold	No information available.	
рН	pH (diluted solution): 3.72 , 1% (28°C/ 82.4°F)	
Melting point	146 - 149°C/294.8 - 300.2°F	
Initial boiling point and range	No information available.	
Flash point	No information available.	
Evaporation rate	No information available.	
Flammability (solid, gas)	No information available.	
Upper/lower flammability or explosive limits	No information available.	
Vapour pressure	No information available.	
Vapour density	No information available.	
Relative density	1.119	
Solubility(ies)	No information available.	
Partition coefficient	No information available.	
Auto-ignition temperature	No information available.	
Decomposition Temperature	No information available.	

9.2. Other information	
Molecular weight	212.24
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	Forms explosive mixtures with air on intense heating. This is a combustible organic substance. The risk of a dust explosion may be assumed when the substance is finely distributed.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	Violent reactions possible with: Strong oxidising agents.
10.4. Conditions to avoid	
Conditions to avoid	Avoid generation and spreading of dust. Avoid dust close to ignition sources.
10.5. Incompatible materials	
Materials to avoid	Avoid contact with strong oxidising agents.
10.6. Hazardous decompositio	on 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 monoxide (CO). Carbon dioxide (CO2).
SECTION 11: Toxicological int	formation
SECTION 11: Toxicological int 11.1. Information on toxicologi	
11.1. Information on toxicologi Acute toxicity - oral	ical effects
<u>11.1. Information on toxicologi</u> Acute toxicity - oral Summary	i cal effects Harmful if swallowed.
<u>11.1. Information on toxicologi</u> Acute toxicity - oral Summary ATE oral (mg/kg)	ical effects
<u>11.1. Information on toxicologi</u> <u>Acute toxicity - oral</u> Summary ATE oral (mg/kg) <u>Acute toxicity - dermal</u>	i <u>cal effects</u> Harmful if swallowed. 500.0
<u>11.1. Information on toxicologi</u> <u>Acute toxicity - oral</u> Summary ATE oral (mg/kg) <u>Acute toxicity - dermal</u> Summary	i <u>cal effects</u> Harmful if swallowed. 500.0 Harmful in contact with skin.
<u>11.1. Information on toxicologi</u> <u>Acute toxicity - oral</u> Summary ATE oral (mg/kg) <u>Acute toxicity - dermal</u> Summary ATE dermal (mg/kg)	i <u>cal effects</u> Harmful if swallowed. 500.0
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<u>11.1. Information on toxicologi</u> <u>Acute toxicity - oral</u> Summary ATE oral (mg/kg) <u>Acute toxicity - dermal</u> Summary ATE dermal (mg/kg) <u>Acute toxicity - inhalation</u>	ical effects Harmful if swallowed. 500.0 Harmful in contact with skin. 1,100.0
11.1. Information on toxicologiAcute toxicity - oralSummaryATE oral (mg/kg)Acute toxicity - dermalSummaryATE dermal (mg/kg)Acute toxicity - inhalationSummaryATE inhalation (dusts/mists	ical effects Harmful if swallowed. 500.0 Harmful in contact with skin. 1,100.0 Harmful if inhaled.
11.1. Information on toxicologi Acute toxicity - oral Summary ATE oral (mg/kg) Acute toxicity - dermal Summary ATE dermal (mg/kg) Acute toxicity - inhalation Summary ATE dermal (mg/kg) Acute toxicity - inhalation Summary ATE inhalation (dusts/mists mg/l) Skin corrosion/irritation	ical effects Harmful if swallowed. 500.0 Harmful in contact with skin. 1,100.0 Harmful if inhaled. 1.5
11.1. Information on toxicologi Acute toxicity - oral Summary ATE oral (mg/kg) Acute toxicity - dermal Summary ATE dermal (mg/kg) Acute toxicity - inhalation Summary ATE dermal (mg/kg) Acute toxicity - inhalation Summary ATE inhalation (dusts/mists mg/l) Skin corrosion/irritation Summary Serious eye damage/irritation	ical effects Harmful if swallowed. 500.0 Harmful in contact with skin. 1,100.0 Harmful if inhaled. 1.5 Causes skin irritation.

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 - r	epeated exposure
Summary	Based on available data the classification criteria are not met.
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. Stomach pain. Nausea, vomiting.
Skin contact	Redness. Irritating to skin.
Eye contact	Irritating to eyes.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.
SECTION 12: Ecological inform	nation
12.1. Toxicity	
Acute aquatic toxicity	
Summary	Based on available data the classification criteria are not met.
Acute toxicity - fish	LC₅₀, 96 hours: > 100 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic plants	EC₅₀, 72 hours: > 200 mg/l, Freshwater algae
Chronic aquatic toxicity	
Summary	Harmful to aquatic life with long lasting effects.
12.2. Persistence and degrada	bility
Persistence and degradability	0.01%, 30 days Not readily biodegradable.
12.3. Bioaccumulative potentia	<u>I</u>
Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	No information available.
12.4. Mobility in soil	

1.2. Results of PBT and vPvB assessment 12.0. Other adverse effects Verter adverse effects None known. SECTION 13: Disposal considered methods 13.1 Waste treatment methods 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 diaposed 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 emplied 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 (ables and contaminated cleaning materials should be considered in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible. SECTION 14: Transport hazard olass(es) Not applicable. Not applicable. Interprotuct is not covered by international regulations on the transport of dangerous goods (MDG, IATA, ADR/RID). 14.1.UN number Not applicable. 14.2.UN proper shipping numelet. Interprotuct is not covered by international regulations on the transport of dangerous goods (MDG, IATA, ADR/RID). 14.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.			
12.6. Other adverse effects None known. SECTION 13: Disposal considerations 13.1. Waste treatment methods 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 an 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 Information General Charge product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). 14.1. UN number Not applicable. 14.3. Transport hazard class(es) No transport warning sign required. 14.1. Proper shipping name Not applicable. 14.1. UN number No tanport warning sign required. 14.1. Asking group Not applicable.	Mobility	No data available.	
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Not applicable.	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	15.1. Safety, health and enviro	onmental 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). EC₅₀: 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 Skin Irrit. = Skin irritation Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Classification procedures according to SI 2019 No. 720	Acute Tox. 4 - H312: Acute Tox. 4 - H332: Acute Tox. 4 - H302: Skin Irrit. 2 - H315: Eye Irrit. 2 - H319: : Expert judgement. Aquatic Chronic 3 - H412: : Expert judgement.
Training advice	Only trained personnel should use this material.
Revision date	22/11/2022
Revision	1
SDS number	1809
Hazard statements in full	 H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H412 Harmful to aquatic life with long lasting effects.

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.