

SAFETY DATA SHEET

Gibberellic acid

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

1.1. Product identifier

Product name	Gibberellic acid	
Product number	84003407	
CAS number	77-06-5	
EC number	201-001-0	
1.2. Relevant identified uses of 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

	inio@molekula.com
1.4. Emergency telephone	number
SECTION 2: Hazards ident	ification
2.1. Classification of the su	bstance or mixture
Classification (SI 2019 No.	720 <u>)</u>
Physical hazards	Not Classified
Health hazards	Eye Irrit. 2 - H319
Environmental hazards	Not Classified
2.2. Label elements	
EC number	201-001-0
Hazard pictograms	
Signal word	Warning

Signal word	Warning
Hazard statements	H319 Causes serious eye irritation.

Precautionary statements	P264 Wash contaminated skin thoroughly after handling.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P337+P313 If eye irritation persists: Get medical advice/ attention.

2.3. Other hazards

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

SECTION 3: Composition/in	formation on ingredients
3.1. Substances	
Product name	Gibberellic acid
CAS number	77-06-5
EC number	201-001-0
Chemical formula	C19H22O6
SECTION 4: First aid measu	res
4.1. Description of first aid m	neasures
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. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
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 sympton	ns 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: Temporary irritation.
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 immediate medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting me	asures
E 1. Extinguishing modio	

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fireextinguishing media suitable for the surrounding fire.

Unsubable 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 None known. Hazardous combustion Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). 5.3. Advice for firefighters Protective actions during Avoid breathing fire gases or vapours. Evacuate area. 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 severs and watercourses. If risk of water pollution occurs, notify appropriate authorities. Special protective equipment Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective for firefighters Control firefighters Control firefighters Control firefighters Control is every and developed protection for chemical incidents. SECTION 6: Accidental release measures Control run-off water by containing and rease, if possible contained breathing apparatus (SCBA) and appropriate protective for firefighters Containing and secong protective equipment and emergency procedures Personal precautions Wear protective coloning 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. Containinet darks and shore with easier set uses and sective and place in subable waste disposal containers and ease excurvely. Fluck horinamized fare awith envil of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13. Containing and resures, if possible. Collect and place in subable waste disposal containers and ease excurvely. Fluck horinamized fare awith placy of water. Wash thoroughly after dealing with a spillage. For waste disposal, see S		
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occupational hygiene contaminated clothing before reuse.	Usage precautions	Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs.
7.2. Conditions for safe storage, including any incompatibilities	*	
	7.2. Conditions for safe storag	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.
	Store under argon. Store at temperatures between 2°C/35.6°F and 8°C/46.4°F.
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 control	Is/Personal protection
8.1. Control parameters	
8.2. Exposure controls	
Protective equipment	
Appropriate engineering controls	Provide adequate ventilation. 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.
SECTION 9: Physical and che	emical properties
9.1. Information on basic phy	sical and chemical properties
Appearance	Crystalline powder.
Colour	White. to Light (or pale). Yellow.
Odour	Not known.
Odour threshold	No information available.
рН	pH (diluted solution): 2.0

Melting point227°C/440.6°F

Initial boiling point and range 628.595°C/1163.471°F @ 760 mm Hg

Flash point	231.4°C/448.52°F
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	1.493 g/cm3
Solubility(ies)	Slightly soluble in the following materials: DMSO Methanol.
Partition coefficient	log Pow: 0.24
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
9.2. Other information	
Molecular weight	346.37
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	See the other subsections of this section for further details.
10.2. Chemical stability	
Stability	Stable under the prescribed storage conditions. Store at temperatures between 2°C/35.6°F and 8°C/46.4°F.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	No potentially hazardous reactions known.
10.4. Conditions to avoid	
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
10.5. Incompatible materials	
Materials to avoid	Strong oxidising agents.
10.6. Hazardous decomposition products	
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO).
SECTION 11: Toxicological in	formation
11.1. Information on toxicolog	ical effects

11.1. Information on toxicological effects

Acute toxicity - oral

Summary

Based on available data the classification criteria are not met.

Acute toxicity - dermal	
Summary	Based on available data the classification criteria are not met.
Acute toxicity - inhalation Summary	Based on available data the classification criteria are not met.
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	Based on available data the classification criteria are not met.
Summary	
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 - Summary	single exposure Based on available data the classification criteria are not met.
-	
Specific target organ toxicity - Summary	repeated exposure Based on available data the classification criteria are not met.
-	
Aspiration hazard Summary	Not relevant. Solid.
- unitary	
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: Temporary irritation.
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
Target organs	No specific target organs known.
SECTION 12: Ecological infor	
Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment

<u>12.1. Toxicity</u> Acute aquatic toxicity hazardous effects on the environment.

Summary	Based on available data the classification criteria are not met.	
Chronic aquatic toxicity Summary	Based on available data the classification criteria are not met.	
12.2. Persistence and degrad	lability	
Persistence and degradability	The degradability of the product is not known.	
12.3. Bioaccumulative potenti		
Bioaccumulative potential	No data available on bioaccumulation.	
Partition coefficient	log Pow: 0.24	
12.4. Mobility in soil		
Mobility	No data available.	
12.5. Results of PBT and vPv	B assessment	
12.6. Other adverse effects		
Other adverse effects	None known.	
SECTION 13: Disposal consid	lerations	
13.1. Waste treatment method	ds	
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.	
SECTION 14: Transport inform	nation	
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 nam	ne	
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		
14.6. Special precautions for	user	
14.6. Special precautions for a Not applicable.	user	

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

onsHealth and Safety at Work etc. Act 1974 (as amended).The Carriage of Dangerous Goods and Use of Transportable Pressure EquipmentRegulations 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	Eye Irrit. = Eye irritation
Classification procedures according to SI 2019 No. 720	Eye Irrit. 2 - H319: : Expert judgement.
Training advice	Only trained personnel should use this material.
Revision date	30/03/2022
Revision	1
SDS number	810
Hazard statements in full	H319 Causes serious eye irritation.

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.