Material Safety Data Sheet

Brassinolide

Section	1. Identification of the Substance/Mixture and of the	e Company/Undertaking
1.1 Product Code:	21594	
Product Name:	Brassinolide	
Synonyms:	(1R,3aS,3bS,10bS)-1-[(1S,2R,3R,4S)-2,3-dihy dihydroxy-10aR,12aS-dimethyl-6H-benz[c]inde	droxy-1,4,5-trimethylhexyl]hexadecahydro-8S,9R eno[5,4-e]oxepin-6aS-one;
1.2 Relevant identified uses	s of the substance or mixture and uses advised	against:
Relevant identified uses: For	research use only, not for human or veterinary use.	
1.3 Details of the Supplier of	the Safety Data Sheet:	
Company Name:	Aowei Agricultural Technology Co.,Ltd. No.27,CBD Business Inner Ring Road, Zhengdong New District,Zhengzhou,Henan,China	
Web site address:	www.agriplantgrowth.com www.aoweichem.com/en	
Information:	Aowei Agricultural Technology Co.,Ltd.	+86-371-63229216
1.4 Emergency telephone num	mber:	
Emergency Contact:	CHEMTREC Within China:	+86 371-63229216
	CHEMTREC Outside China:	+86 371-63229216
	Section 2. Hazards Identifica	ation

2.1 Classification of the Substance or Mixture:

2.2 Label Elements:

GHS Signal Word: None

GHS Hazard Phrases:

Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.

GHS Precaution Phrases:

No phrases apply.

GHS Response Phrases:

No phrases apply.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.

Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption.

May cause eye, skin, or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

	Hazardous Components (Chemical Name)/ REACH Registration No.	 EC No./ EC Index No.	GHS Classification
72962-43-7 NA	Brassinolide	 NA NA	No data available.

		Section 4. First Aid Measures
4.1 I	Description of First Aid	
Meas	ures:	
	In Case of Inhalation:Rei	move to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated
		clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Indestion: W	/ash out mouth with water provided person is conscious. Never give anything by mouth to an
	in case of ingestion. W	unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing	g A solid water stream may be inefficient.
	Media:	
5.2	Flammable Properties ar	ndNo data available.
	Hazards:	
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instruction	s:As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or
		equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment ar	nd As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3		r Contain spill and collect, as appropriate.
		ng Transfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
1		Section 7. Handling and Storage
7.1	Precautions To Be Take	n Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Take	n Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Se	ction 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
I		

8.2	Exposure Controls:				
8.2.1	Engineering Controls Use pro	cess enclosures, local exhaust ventilation, or other engineering controls to control airborne			
	(Ventilation etc.): levels below	ecommended exposure limits.			
8.2.2	Personal protection equipment:				
	Eye Protection: Safe	ty glasses			
	Protective Gloves: Com	patible chemical-resistant gloves			
	Other Protective Clothing:Lab coat				
	Respiratory Equipment NIO	SH approved respirator, as conditions warrant.			
	(Specify Type):				
	Work/Hygienic/Maintenan Do r	not take internally.			
		ities storing or utilizing this material should be equipped with an eyewash and a safety shower.			
	Was	sh thoroughly after handling.			
	No	data available.			
	Secti	on 9. Physical and Chemical Properties			
9.1	Information on Basic Physical	· · · · ·			
	Physical States:	[]Gas []Liquid [X]Solid			
	Appearance and Odor:	A crystalline solid			
	pH:	No data.			
	Melting Point:	No data.			
	Boiling Point:	No data.			
	Flash Pt:	No data.			
	Evaporation Rate:	No data.			
	Flammability (solid, gas):	No data available.			
	Explosive Limits:	LEL: No data. UEL: No data.			
	Vapor Pressure (vs. Air or mm	No data.			
	Hg):				
	Vapor Density (vs. Air = 1):	No data.			
	Specific Gravity (Water = 1):	No data.			
	Solubility in Water:	No data.			
	Solubility Notes:	~0.25 mg/ml in a 1:3 solution of DMF:PBS (pH 7.2); ~3 mg/ml in EtOH & DMSO; ~5 mg/ml in DMF;			
	Octanol/Water Partition	No data.			
	Coefficient:				
	Autoignition Pt:	No data.			
	Decomposition Temperature:	No data.			
	Viscosity:	No data.			
9.2	Other Information				
	Percent Volatile:	No data.			
	Molecular Formula & Weight:	C28H48O6 480.7			

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			Section 10. Stability ar	nd Reacti	vity		
10.1	Reactivit	y:	No data available.				
10.2	Stability:	-					
10.3	Stability	Note(s):Stable if	stored in accordance with information lis	ed on the pro	duct insert.		
	Polymeri		Will occur [] Will not occur [X]				
10.4	-		No data available.				
10.5							
10.0	To Avoid						
10.6							
	Decompo		carbon monoxide				
	Byprodu						
			Section 11. Toxicologica	al Informa	ation		
	1.6						
11.1	Informati		The toxicological effects of this product	have not bee	n thoroughly st	udied.	
		gical Effects:					
CAS	#	Hazardous Com	nponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
729	962-43-7	Brassinolide		n.a.	n.a.	n.a.	n.a.
			Section 12. Ecological	Informat	ion		
12.1	Toxicity:		Avoid release into the environment.				
			Runoff from fire control or dilution wate	r may cause p	ollution.		
12.2	Persister	ce and	No data available.				
	Degradat	oility:					
12.3	Bioaccur	nulative	No data available.				
	Potential	:					
12.4							
12.5	-						
_	assessm	ent:					
12.6			No data available.				
			Section 13. Disposal C	onsiderat	ions		
13.1	Waste Di	sposal Method:	•				
1			Section 14. Transport		-		
		DANGDODT (UC	•	morna			
14.1		RANSPORT (US	-				
	-	Shipping Name	Not dangerous goods.				
	OT Hazaro						
	N/NA Num						
14.1		-	opean ADR/RID):				
		ipping Name:	Not dangerous goods.				
	N Number						
н	azard Clas	is:					

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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Transport in accordance with local, state, and federal regulations.

Information:

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Co	mponents (Chemical Name)	S. 302 (EHS) No	S. 304 RQ No	S. 313 (TRI) No	
72962-43-7	Brassinolide					
CAS#	Hazardous Components (Chemical Name)		Other US EPA or State Lists			
72962-43-7	Brassinolide		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Information		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)				
Statement:		No.1272/2008.				
		Section 16. Ot	her Informati	on		
Revision Date:		05/08/2021				
Additional Information About This Product:		No data available.				
	icy or Disclaime	er: DISCLAIMER: This informati	on is believed to	be accurate and r	epresents the best	
information currently available to us. However, we make no warranty of merchantability or				of merchantability or		
any other warranty, express or implied, with respect to such information, and we assund the second second second to determine the second secon			on, and we assume			
			ations to determine			
		the suitability of the information	for their particular p	ourposes.		