

SAFETY DATA SHEET

Version 03	Revision Date 12.02.2024	This version replaces all previous versions.

1.1 Product identifier				
Product	:	Lambda-cyhalothrin 5% EC		
Substance/mixture	1:	Mixture		
1.2 Other means of iden	tificatio	on		
Trade Name	— :	-		
	of the cl	hemical and restrictions on use		
Identified uses	1:	Insecticide		
Use advised against	:	No data available		
1.4 Supplier's details				
Name	:	GSP Crop Science Limited		
Address		404, Lalita Complex, Rasala Road, Mithakhali Six Road, Navrangpura,		
		Ahmedabad- 380009, Gujarat, India.		
Phone number	:	+91-79 26466580		
Email address	:	info@gspcrop.in		
1.5 Emergency phone no	umber			
<u> </u>	<u>:</u>	+91 79 22900451		
		+91 79 61915111		
		+91 79 61915151		
		Timing: IST 9:30 to 17:30 hrs.		
SECTION 2: Hazards ide	ntificati	<u> </u>		
2.1 GHS classification o				
Hazard Category		Acute toxicity (oral) Category 4		
Trazara Gatogory		Acute toxicity (Inhalation) Category 4		
		Serious eye damage/ irritation Category 2		
		Acute aquatic toxicity Category 1		
		Flammable liquids Category 4		
2.2 GHS label elements		The state of the s		
Hazard Pictograms	T:	_ ^ _		
		!		
Signal Word	:	Warning		
Hazard Statements	:	H302 Harmful if swallowed		
		H320 Causes eye irritation		
		H332 Harmful if inhaled		
		11332 Haiffild II IIIIated		
		H400 Very toxic to aquatic life		
		H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects		
		H400 Very toxic to aquatic life		
Supplement Hazard	:	H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects		



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Prevention	:	P210 Keep away from heat, hot surfaces, sparks, open flames and		
		other ignition sources. No smoking		
		P261 Avoid breathing dust/fume/gas/mist/vapors/spray.		
		P264 Wash hands thoroughly after handling.		
		P264+ 265 Wash hands thoroughly after handling. Do not touch eyes.		
		P270 Do not eat, drink or smoke when using this product.		
		P271 Use only outdoors or in a well-ventilated area.		
		P273 Avoid release to the environment.		
Response	:	P280 Wear protective gloves/protective clothing/eye protection/face		
		protection/hearing protection		
		P301+P317 IF SWALLOWED: Get medical help.		
		P304+ 340 Remove person to fresh air and keep comfortable for		
		breathing.		
		P330 Rinse mouth.		
		P370 + 378 In case of fire: Use appropriate method to extinguish.		
		P391 Collect spillage.		
Storage & Disposal	:	P403 Store in a well-ventilated place.		
		P501 Dispose of contents/container to an appropriate treatment and		
		disposal facility in accordance with applicable laws and regulations,		
		and product characteristics at time of disposal.		
2.3 Other hazards which do not result in classification or are not covered by the GHS.				

No data available

SECTION 3: Composition/information on ingredients

3.1 Substance: NA

3.2 Hazardous components of Mixture:

•		7	·	7
Chemical name/	Content %	CAS	Classification	Hazard
Common Name	(w/v)	Number	Glassification	statements
			Acute (Oral) 3	H301
Lambda aybalathrin	4.5-5.5	91465-08-6	Eye Irritation 2	H319
Lambda-cyhalothrin	4.5-5.5	91405-06-6	Aquatic Acute 1	H400
			Aquatic Chronic 1	H410
Other inert	94.5-95.5		None	None
components	94.5-95.5		None	None

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
If inhaled	:	Supply fresh air, rest. If breathing is irregular, administer artificial respiration. Call a Physician.
In case of skin contact	:	Remove contaminated clothes. Rinse and then wash off the skin with plenty of water and soap.
In case of eye contact	:	Immediately flush with plenty of water. Remove any contact lenses and continue flushing for 15 minutes keeping the eyes wide open. If symptoms persist, call a Physician.
If swallowed	:	Rinse mouth. Do NOT induce vomiting. Refer for medical attention. If symptoms persist, call a Physician.



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4.2 Most important sympt	oms a	nd effects, both acute and delayed			
Symptoms	:	Nonspecific. No further relevant information available.			
4.3 Indication of any imm	ediate	medical attention and special treatment needed			
Treatment	:	No specific antidote available. Treat symptomatically.			
SECTION 5: Firefighting m	neasur	es			
5.1 Extinguishing media					
Suitable Extinguishing	:	Use water spray, alcohol-resistant foam, dry chemical or carbon			
media		dioxide.			
5.2 Specific hazards arising	ng fror	n the chemical			
Specific hazards during	<u> </u>	As the product contains combustible organic ingredients, fire will			
firefighting		produce dense black smoke containing hazardous products of			
		combustion.			
		Form a constant of a constant of the constant			
		Exposure to decomposition products may be a hazard to health.			
5.3 Special protective act	ions fo				
Advice for firefighters	:	In the event of fire, do not breathe fumes.			
		Do not attempt to take action without suitable protective equipment,			
		self-contained breathing apparatus & complete protective clothing.			
Further information	<u> </u>	Do not allow run-off from fire fighting to enter drains or water courses.			
SECTION 6: Accidental re					
	prote	ctive equipment and emergency procedures			
Personal precautions	:	Ventilate spillage area. No open flames, no sparks, and no smoking.			
		Avoid breathing fume. Use personal protective equipment as required.			
		Evacuate personnel to safe areas. Keep people away from spill/			
		fumes.			
		For emergency responders: Do not attempt to take action without			
		suitable protective equipment. For further information refer to section			
C O Farriga and a sector and a sector		8: "Exposure controls/personal protection".			
6.2 Environmental precau	Itions	Dura and from hear leadings are will ago if and a hear a			
Environmental	:	Prevent further leakage or spillage if safe to do so.			
precautions		Try not to let this chemical enter the environment.			
		Do not flush into surface water or sanitary sewer system.			
		If the product contaminates rivers and lakes or drains inform			
		respective authorities.			
6.3 Methods and material	for co	ntainment and cleaning up			
Handling and storage	:	Store and dispose of according to local regulations.			
Tranading and otorago	'	otoro and dioposo of dooording to toodtrogatations.			
Methods for cleaning up	:	Collect spilled liquid with non-combustible absorbent material. Clean			
5 'r		contaminated surface thoroughly. Clean with detergents. Avoid			
		solvents.			
SECTION 7: Handling and storage					
7.1 Precautions for safe h	andlin	g			
Advice on safe handling	:	Comply with the legal requirements. Remove contaminated clothing			
		immediately. Clean contaminated clothing. Keep the substance free			
		from contamination. clean/dry the installation before use.			
		Do not discharge the waste into the drain. Do not use compressed air			
		for pumping over. Keep container tightly closed.			



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		work under local exhaust/ventilation. Exhaust gas must be neutralized. Hygiene measures: Do not eat, drink, or smoke when using this product.
		Wash hands and other exposed areas with mild soap and water before
		eating, drinking and when leaving work
7.2 Conditions for safe sto	rage.	including any incompatibilities.
Requirements for storage	:	Keep in a well-ventilated room. Store in original tightly closed
areas and containers		container. Keep out of reach of the children. Do not contaminate
areas and containers		water, food, or feed by storage or disposal.
SECTION 8: Exposure cont	rols/p	
8.1 Control parameters		
Occupational Exposure limit values	:	No data available
Biological limit values	:	No data available
8.2 Appropriate engineering	ng con	trols
Engineering measures	:	Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.
8.3 Individual protection m	neasu	res
Eye Protection	:	Wear safety spectacles or eye protection.
Hand Protection	:	Protective gloves made of plastic or rubber.
		Gloves should be discarded and replaced if there is any indication of
		degradation or chemical breakthrough.
Skin and body protection	:	Wear protective clothing, including boots, gloves, lab coat, apron or
		cover all, as appropriate to avoid skin contact.
Respiratory Protection	:	Where concentrations are above recommended limits or are unknown,
		appropriate respiratory protection should be worn.
		Use a positive pressure air supplied respirator if there is any potential
		for uncontrolled release.
SECTION 9: Physical and c	hemi	
i. Appearance (physical	:	Yellow liquid
state, color)	.	Characteristic odor
ii. Odor Iii. Odor threshold	 	Not available
iv. Ph	:	6-7 (1% aqueous solution)
v. Melting point/freezing	:	Not applicable
point	'	τοι αργιισασίο
vi. Initial boiling point and	:	Not applicable
boiling range	•	. To Cappilous to
vii. Flash point	:	63°C
viii. Evaporation rate	:	Not available
ix. Flammability (solid,		Not flammable
gas)		
x. Upper/lower	:	No data available
flammability or explosive		
limits		
xi. Vapor pressure	:	No data available



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xii. Vapor density		No data availal	No data available					
xiii. Relative Density		0.85-0.95						
xiv. Solubility(ies)		No data availal	hle					
Aiv. Solubility(les)		No data avaitable						
xv. Partition coefficient	:: n-	No data availal	No data available					
octanol/water								
xvi. Auto-ignition	;	No data availal	ble					
temperature								
xvii. Decomposition	:	No data availal	No data available					
temperature								
xviii. Viscosity	;							
xx. Others	:		or 0.1% v/v solu	tion and	47.77mN/	m for neat sample at		
Surface tension		20.0°C						
SECTION 10: Stability								
10.1 Reactivity	:		-					
10.2 Chemical stabilit	у :	Stable under n	ormal conditio	ns				
10.3 Possibility of		No dangerous	reaction knowr	n under d	conditions	of normal use.		
hazardous reactions								
10.4 Conditions to avo	oid :	: None known.						
10.5 Incompatible		: None known.						
materials								
10.6 Hazardous	:	No hazardous decomposition products are known.						
decomposition produ								
SECTION 11:Toxicolog	ical inf	ormation						
11.1 Acute Toxicity		_						
Exposure		Measurement (s	•	Value		Hazard Category		
Oral		LD ₅₀ (Rat) mg/kg	body weight	500 (cut off value)		Category 4		
Dermal		LD ₅₀ (Rat) mg/kg	LD ₅₀ (Rat) mg/kg body weight			Category 5		
Inhalation		LC ₅₀ (Rat) mg/l body weight		1.4		Category 4		
Skin corrosion/irritation	n	(Rabbit)		Mild- irritant		Category 3		
Serious eye damage ir	ritation	(Rabbit)		Reversible irritant		Category 2A		
Skin sensitization		(Guinea pig)		Not a sensitizer		Unclassified		
11.2 Germ cell		Non-Mutagenic						
mutagenicity								
11.3 Carcinogenicity		Non-Carcinoge	enic					
11.4 Reproductive toxic			No data available					
11.5 STOT Repeated			No data available					
exposure								
SECTION 12: Ecologic	al infor	mation						
12.1 Aquatic Toxicity								
Organism	Specie	S	Unit	Unit		Hazard Category		
		nynchus mykiss	nchus mykiss		0.00036	Category 1		
	(rainbo	w trout)	LC ₅₀ (96 hrs)	mg/L				



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Toxicity to aquatic invertebrates	Daphnia magna (Water flea)			EC ₅₀ (48 hrs) m	g/L	0.00026	Category 1
Toxicity to aquatic plants	Algae			ErC ₅₀ (72 hrs) n	ng/L	1	Category 2
<u> </u>	degra	ndahi	litv				
12.21 CISISTORICC drid	12.2 Persistence and degradability : No data available						
12 3 Rioaccumulative							
12.0 Bloaddalliatative	12.3 Bioaccumulative potential : Low bioaccumulation potential						
12.4 Mobility in soil		•	LOW BIOGOGGIII	atation potentiat			
12.4110510149 111 3010	: Low mobility in soil						
12.5 Other adverse ef	fects		Low mobility in				
Results of PBT and vPv assessment	-						
SECTION 13 : Disposa	al con	sider		.6 (** **)*			
Waste treatment meth	-					ole recycling is	
Contaminated packag				tainers. ers should be tak	en to a	an approved	d waste handling site
SECTION 14: Transpo	SECTION 14: Transport information						
14.1 UN Number							
ADR/RID: UN3082			IMDG: UN3082		IATA: l	JN3082	
14.2 UN Proper Shipp	ing N	ame					
ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Lambda- cyhalothrin		IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Lambda- cyhalothrin IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Lambda- cyhalothrin					
14.3 Transport Hazard	a clas	s(es)	IMPO	1 ,	IATA		
ADR/RID: 9	onn!	io chi	IMDG: 9		IATA: 9	J	
14.4 Packing group, if	appu	cable	IMDG: III	T	IATA. 1	<u> </u>	
	ADR/RID: III				IATA: I	Ш	
ADR/RID: Yes IMDG: Yes			IMDG: Yes	T	IATA: Yes		
PARTITION TO INTRACTOR INTO THE STATE OF THE							
14.6 Special precauti	ons fo	or use	er				
oposiat product		:	None				
		-	1				



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14.7 Transport in bulk acco	ording	g to IMO instruments
Transport in bulk	:	Not applicable for product as supplied.
according to Annex II of		
MARPOL 73/78 and the		
IBC Code:		
SECTION 15: Regulatory in	forma	ation
Safety, health and environm	ental	regulations specific for the product in question.
Full text of H-Statements	:	H302 Harmful if swallowed
		H320 Causes eye irritation
		H332 Harmful if inhaled
		H400 Very toxic to aquatic life
		H410 Very toxic to aquatic life with long lasting effects
		H227 Combustible liquid
REACH - Candidate List of	:	No
Substances of Very High		
Concern for Authorisation		
Regulation (EC) No	:	No
1005/2009 on substances		
thatdeplete the ozone		
layer		
	:	No
Regulation (EC) No 850/2004 on persistent		
organic pollutants		
SECTION 16 : OTHER INFO	DMAT	TON
16.1 Information on revision		1014
		2.2024 for aligning it as per GHS format.
16.2 Abbreviations and ac		<u> </u>
GHS	:	Globally Harmonized System
CAS	:	Chemical Abstracts Service
LC ₅₀	:	Lethal Concentration 50%
LD ₅₀	:	Lethal Dose 50%
EC ₅₀	:	Effective Concentration 50%
PBT	:	Persistent, Bioaccumulative and Toxic substance
vPvB	:	Very Persistent and Very Bioaccumulative
ADR	:	European Agreement concerning the International Carriage of
		Dangerous Goods by Road
RID	:	Regulation concerning the International Carriage of Dangerous Goods
		by Rail
IMDG	:	International Maritime Dangerous Goods
IATA	:	International Air Transportation Association
MARPOL	:	International Convention for the Prevention of Pollution from Ships
STOT	:	Specific target organ toxicity
16.3 References	I	,
	amic	rals Agency website: https://echa.europa.eu/

- ECHA European Chemicals Agency, website: https://echa.europa.eu/
- The Pesticide Manual, British Crop Production Council
- https://unece.org/transport/dangerous-goods/ghs-rev10-2023
- https://sitem.herts.ac.uk/aeru/ppdb/



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• Unpublished reports – GSP Crop Science Limited, India.v

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.