

GSP Crop Science Ltd SAFETY DATA SHEET

THIOCYCLAM HYDROGEN OXALATE

Version: 01 Revision Date: This version replaces all previous versions. 31/05/2025

1.1 Product identifier					
Product		Thiocyclam hydrogen oxalate			
Floduct	-	Pure Substance			
1.2 Other means of identification	-	Fule Substance			
CAS No.		31895-22-4			
1.3 Recommended use of the cho	· omica				
Identified uses	·	Laboratory chemicals, Manufacture of substances			
Use advised against	-	Used to control insects in various crops			
1.4 Supplier's details	-	Osed to control insects in various crops			
Name	Τ.	GSP Crop Science Limited			
Address		404, Lalita Complex, Rasala Road, Mithakhali Six Road,			
Addless	•	Navrangpura, Ahmedabad- 380009, Gujarat, India.			
Phone number	<u>:</u>	+91-79 26466580			
Email address	:	info@gspcrop.in			
1.5 Emergency phone number					
	:	+91 79 22900451			
		+91 79 61915111			
		+91 79 61915151			
		Timing: IST 9:30 to 17:30 hrs.			
SECTION 2: Hazards identification					
2.1 GHS classification of the sub	stanc				
Hazard Category	:	Classification according to Regulation (EC) No 1272/2008			
		Acute toxicity Oral (Category 3) H301,			
		Acute toxicity Dermal (Category 3) H311,			
		Acute aquatic toxicity (Category 1), H400,			
		Chronic aquatic toxicity (Category 1), H410			
		For the full text of the H-Statements mentioned in this			
		Section, see Section 16.			
2.2 GHS label elements	1				
Hazard Pictograms	:				
Signal Word	+ .	Danger			
Hazard Statements	:	Danger H301 Toxic if swallowed			
Hazaru Statements	•	H311 Toxic in contact with skin			
		H410 Very toxic to aquatic life with long lasting			
		effects			
Supplement Hazard statements	+ .	None			
Precautionary Statements					
rievaulionary Statements	:	P264 - Wash face, hands and any exposed skin			
		thoroughly after handling P273 - Avoid release to the environment			
Provention	:	P391 - Collect spillage			
Prevention		P280 - Wear protective gloves and protective clothing			
		P301 + P310 - IF SWALLOWED: Immediately call a			
		POISON CENTER or doctor No information available			
Response					



Specific hazards during

5.3 Special protective actions for fire-fighters

firefighting

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Storage & Dianocal		Ι.	Diaposal r	must be made asserting to offi	oial regulations	
Storage & Disposal : Disposal must be made according to official regulations 2.3 Other hazards which do not result in classification or are not covered by the GHS.						
: This substance/mixture contains no components						
				d to be persistent, bio accumul		
				very persistent and very bio ac		
				levels of 0.1% or higher.	Carrialative	
SECTION 3 : Compositio	n/informa	ation				
3.1 Substance/Mixture	11/11/10/11/10	40011	i on mgroun	51165		
Synonyms : Formula :	Synonyms : Thiocyclam hydrogen oxalate					
	1.38 g/mo					
	31895-22					
EC-No.			-859-2			
	607-170-0	00-0				
3.2 Hazardous compone					T	
Chemical name/	Content	%	CAS	Classification	Hazard	
Common Name	(w/w)		Number		statements	
Thiocyclam hydrogen oxalate	86.00 (Min.)		31895-22- 4	Acute Tox. 3; Aquatic Acute 1; Aquatic Chronic 1; H301, H311, H400, H410 M-Factor - Aquatic Acute:10	For the full text of the H- Statements mentioned in this Section, see Section	
					16.	
SECTION 4: First aid measures						
4.1Description of first aid	d measur	es				
General advice		:		Show this material safety data sheet to the doctor in attendance.		
If inhaled		:	If breathed in, move person into fresh air.			
In case of skin contact		:	Take off immediately all contaminated clothing. Wash off			
In any face of the		 .		with soap and plenty of water. Consult a physician		
In case of eye contact		:		Flush eyes with water as a precaution. Remove contact lenses.		
If swallowed		:		Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.		
4.2 Most important symptoms and effects, both acute and delayed						
Symptoms : The most important known symptoms and effects are						
Symptoms		-	described in the labelling (see section 2.2) and/or in section 11			
4.3 Indication of any immediate medical attention and special treatment needed						
Treatment : No data available						
SECTION 5: Firefighting measures						
5.1 Extinguishing media						
Suitable Extinguishing media			Use water spray, alcohol-resistant foam, dry chemical or			
5.2 Specific hazards aris	carbon dioxide Special 5.2 Specific hazards arising from the chemical					
o.z opecino nazarus arising ironi ine chemicai						

Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides

Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides



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Advice for firefighters	:	Wear self-contained breathing apparatus for firefighting if
		necessary. Use personal protection equipment.
Further information	<u>:</u>	No data available
SECTION 6: Accidental release m		
	ive ec	quipment and emergency procedures
Personal precautions	:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
6.2 Environmental precautions	<u> </u>	To personal protection see section 6.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3 Methods and material for cont	ainm	ent and cleaning up
Handling and storage	<u>:</u>	For Handling and storage see section 7.0
Methods for cleaning up	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
SECTION 7: Handling and storage	•	
7.1 Precautions for safe handling	,	
Advice on safe handling	:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
7.2 Conditions for safe storage, in	cludi	ng any incompatibilities.
Requirements for storage areas and containers	·	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Combustible Solids, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects
SECTION 8: Exposure controls/pe	erson	
8.1 Control parameters		-
Occupational Exposure limit values	:	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies
Biological limit values	:	No data available
8.2 Appropriate engineering conti	rols	
Engineering measures	:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
8.3 Individual protection measure	S	
Eye Protection	:	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and Approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Hand/Skin Protection	:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in



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	1	7		
		accordance with applicable laws and good laboratory		
		practices. Wash and dry hands.		
		The selected protective gloves have to satisfy the		
		specifications of EU Directive 89/686/EEC and the		
		standard EN 374 derived from it		
Body protection	:	Complete suit protecting against chemicals, The type of		
		protective equipment must be selected according to the		
		concentration and amount of the dangerous substance at		
		the specific workplace.		
Respiratory Protection	:	Where risk assessment shows air-purifying respirators are		
		appropriate use (EN 143) respirator cartridges as a		
		backup to engineering controls. If full-face supplied air		
		respirator. Use respirators and components tested and		
		approved under appropriate government standards such		
SECTION 9: Physical and chemic	al nro	as NIOSH (US) or CEN (EU).		
i. Appearance (physical state,	i pic	Beige crystalline		
color, etc)		Doigo orystallino		
ii. Odor		Odourless		
lii. Odor threshold	:	No data available		
iv. pH	:	No data available		
v. Melting point/freezing point	:	132°C		
vi. Initial boiling point and boiling	:	No data available		
range				
vii. Flash point	:	> 130.00 °C		
viii. Evaporation rate	:	No data available		
ix. Flammability (solid, gas)	:	No data available		
x. Upper/lower flammability or	:	No data available		
explosive limits				
xi. Vapor pressure	:	6.2 × 10-7 Pa at 25°C		
xii. Vapor density	:	No data available		
xiii. Relative density	:	No data available		
xiv. Solubility(ies)	:	Soluble in water		
xv. Partition coefficient: n-	:	log Pow: 0.0706 in n-octanol/water		
octanol/water				
xvi. Auto-ignition temperature	:	No data available		
xvii. Decomposition temperature	:	No data available		
xviii. Viscosity	:	Viscosity, kinematic: No data available Viscosity, dynamic:		
		No data available		
xix. Others	:	No data available		
SECTION 10: Stability and reactivity				
10.1 Reactivity	<u> </u>	Forms explosive mixtures with air on intense heating.		
10.2 Chemical stability	:	Stable under recommended storage conditions.		
10.3 Possibility of hazardous	:	No data available		
reactions 10.4 Conditions to avoid	 .	Strong hooting		
	:	Strong heating		
10.5 Incompatible materials	-	Strong oxidizing agents		
10.6 Hazardous decomposition	:	Hazardous decomposition products formed under fire		
products		conditions Carbon oxides, Nitrogen oxides (NOx), Sulfur		
		oxides.		



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				T			
					nposition products fo		
					on oxides, Nitrogen	oxides (NOx), Sulfur	
		oxides.					
	In the event of fir				e: see section 5		
SECTION 11: Toxicol	logical i	inform	natio	<u>n</u>			
11.1 Acute Toxicity	Ī	11.4				1	
Exposure		Unit			Value	Hazard Category	
Oral			(Rat) mg/kg body wight		195 mg/kg		
		D ₅₀ (Rabbit) mg/kg body		Rat - > 1,000			
wight		vignt LC ₅₀ (Rat) mg/kg body wight		mg/kg Rat - 4 h - > 4500			
Inhalation LC ₅₀ ((Nat	ing/kg body wight	mg/m3		
Skin corrosion/irritation	nn -	No da	ata a	ıvailable	ing/ino		
Serious eye damage				ıvailable			
irritation		140 0	<i></i> 6	TAIIGNIO			
Skin sensitization		No da	ata a	ıvailable			
11.2 Germ cell mutage	enicity			No data available			
11.3 Carcinogenicity	···-·-			No data available			
11.4 Reproductive toxi	icity			No data available			
SECTION 12: Ecolog		ormat	tion				
12.1 Aquatic Toxicity	/						
Organism	Specie	es		Unit	Value	Hazard Category	
Toxicity to fish	Oncor		us	LC ₅₀ (96 hrs) mg/L	> 0.04 mg/l		
	mykiss			, , ,			
	(rainbo	ow trou	ut)				
Toxicity to aquatic	Daphn			EC ₅₀ (48 h) mg/L	2.01 mg/l		
invertebrates	magna	a (Wat	er				
	flea) -						
Toxicity to aquatic	Scene	cenedemus		EC ₅₀ (72 hrs) mg/L	3.3 mg/l		
plants		.1 - 1. !!!4					
12.2 Persistence and		abilit	У .	Not no odili dolodo			
Biodegradability Resu 12.3 Bioaccumulative		tial		Not readily biode	gradable		
		udi	:	No data available			
sparrmanii	Bio accumulation Tilapia			No data available			
12.4 Mobility in soil]				
			:	No data available			
12.5 Other adverse e	ffects			1			
			:	No data available			
SECTION 13: Disposal considerations							
Waste treatment methods			:	: Dispose of waste in accordance with environmental			
				legislation. Dispose of in accordance with local			
regulations.							
Contaminated packaging :			:	Do not reuse empty containers.			
SECTION 14: Transport information							
14.1 UN Number							
			: UN2588	JN2588 IATA: UN2588			
14.2 UN Proper Shipping Name							
ADR/RID: ADR/RID: A					ADR/RID:		



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PESTICIDE, SOLID, TOXIC,	DECT	CIDE SOLID TOVIC	DESTICIDE SOLID TOVIC		
N.O.S. (THIOCYCLAM	PESTICIDE, SOLID, TOXIC, N.O.S. (THIOCYCLAM N.O.S. (THIOCYCLAM				
HYDROGENOXALATE)					
,	HYDROGENOXALATE) HYDROGENOXALATE)				
14.3 Transport Hazard class(es) ADR/RID: 6.1	<u>.</u>				
14.4 Packing group, if applicable					
	IMDG: III IATA: III				
14.5 Environmental hazards			T		
		Marine pollutant: Yes	IATA: Yes		
14.6 Special precautions for use	er				
Tunnel restriction code : (E)					
14.7 Transport in bulk according	g to IM	O instruments			
	:				
SECTION 15: Regulatory inform	ation				
Safety, health and environmental r	egulati	ons specific for the prod	duct in question.		
Full text of H-Statements	:	H301 Toxic if swallow	ed.		
I WII LEAL OF FI-GLALETHEFILS		H311 Toxic in contact	with skin.		
		H400 Very toxic to aq	uatic life.		
			uatic life with long lasting effects.		
REACH - Candidate List of	:		e does not contain components		
Substances of Very HighConcern			ndocrine disrupting properties		
for Authorisation			Article 57(f) or Commission		
101 / Idanonication			(EU) 2017/2100 or Commission		
			605 at levels of 0.1% or higher		
		No information availab			
Regulation (EC) No 1005/2009 on			Die		
substances that deplete the ozone					
layer					
Regulation (EC) No 850/2004 on	:	No information available			
persistent organicpollutants					
h everyone er demock en er en er					
SECTION 16: OTHER INFORMAT	TION				
16.1 Information on revision					
16.2 Abbreviations and acronym	าร				
GHS		Globally Harmonized	System		
CAS		Chemical Abstracts Service			
LC ₅₀	<u> </u>	Lethal Concentration 50%			
LD ₅₀		Lethal Dose 50%			
EC ₅₀	:		on 50%		
	-	Effective Concentration 50%			
PBT		Persistent, Bioaccumulative and Toxic substance			
vPvB	:	Very Persistent and Very Bioaccumulative			
ADR	:		concerning the International		
		Carriage of Dangerou			
RID	:		g the International Carriage of		
		Dangerous Goods by			
IMDG	:	International Maritime	<u> </u>		
IATA	:	International Air Trans	sportation Association		
MARPOL	:	International Convent	ion for the Prevention of Pollution		
		from Ships			
STOT	:	Specific target organ	toxicity		
16.3 References		<u>, , , , , , , , , , , , , , , , , , , </u>	•		

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- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- · Reference MSDS sigma Aldrich; LGC Standards
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- ECHA European Chemicals Agency, website: https://echa.europa.eu/
- The Pesticide Manual, British Crop Production Council
- Unpublished reports GSP Crop Science Limited, India.

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.