



GSP Crop Science Ltd

SAFETY DATA SHEET

According to GHS Revision 10

Pyroxasulfone Technical

Version: 01

Revision Date: 27.11.2025

This version replaces all previous versions.

SECTION 1: Identification of the substance or mixture and of the supplier

1.1 Product identifier

Product : PyroxasulfoneTechnical

Substance/mixture : Substance

1.2 Other means of identification

Cas No. : 447399-55-5

1.3 Recommended use of the chemical and restrictions on use

Identified uses : Herbicide

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 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 substance/mixture

Hazard Category : Aquatic acute Category 1

2.2 GHS label elements

Hazard Pictograms



Signal Word : Warning

Hazard Statements : H400 Very toxic to aquatic life

Supplement Hazard statements : --

Precautionary Statements

Prevention : P273 Avoid release to the environment.

Response : P301 + P317 IF SWALLOWED: Get medical help
P302 + P317 IF ON SKIN: Get medical help
P391 Collect spillage

Storage & Disposal : 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.



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: No data available

SECTION 3 : Composition/information on ingredients

3.1 Substance :

3.2 Hazardous components of Mixture: NA

Chemical name/ Common Name	Content % (w/w)	CAS Number	Classification	Hazard statements
Pyroxasulfone	98-99%	447399-55-5	Aquatic acute 1	H400
Other Non-hazardous components	1-2%	-	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.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	Nonspecific. No further relevant information available.
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4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	No specific antidote available. Treat symptomatically.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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5.2 Specific hazards arising from the chemical

Specific hazards during firefighting	:	As the product contains combustible organic ingredients, fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health.
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5.3 Special protective actions for fire-fighters

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	:	Do not allow run-off from fire fighting to enter drains or water courses.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective 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 8: "Exposure controls/personal protection".
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6.2 Environmental precautions

Environmental precautions	:	Prevent further leakage or spillage if safe to do so. 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.
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6.3 Methods and material for containment and cleaning up

Handling and storage	:	Store and dispose of according to local regulations.
Methods for cleaning up	:	Collect spilled liquid with non-combustible absorbent material. Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	No special protective measures against fire required. Avoid contact with skin and eyes. Hygiene measures: Do not eat, drink, or smoke when using this product. Always wash hands after handling the product.
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7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers	:	Keep in a well-ventilated room. Store in original tightly closed container. Keep out of reach of the children. Do not contaminate water, food, or feed by storage or disposal.
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values	:	No data available
Biological limit values	:	No data available

8.2 Appropriate engineering controls

Engineering measures	:	Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.
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8.3 Individual protection measures

Eye Protection	:	Wear safety spectacles or eye protection.
Hand Protection	:	Protective gloves made of plastic or rubber.



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		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 chemical properties		
i. Appearance (physical state, color)	:	White powder $20 \pm 1^\circ\text{C}$
ii. Odor	:	Odorless
lii. Odor threshold	:	No data available
iv. pH	:	7.02 ± 0.01 at 25.0°C
v. Melting point/freezing point	:	$116.1 \pm 0.11^\circ\text{C}$
vi. Initial boiling point and boiling range	:	Not applicable
vii. Flash point	:	Not applicable
viii. Evaporation rate	:	No data available
ix. Flammability (solid, gas)	:	Non-flammable
x. Upper/lower flammability or explosive limits	:	No data available
xi. Vapor pressure	:	1.3095×10^{-06} Pa at 20°C 2.2673×10^{-06} Pa at 25°C
xii. Vapor density	:	No data available
xiii. Relative density	:	Density: 0.5653 ± 0.0008 g/ml
xiv. Solubility(ies)	:	In Double Distilled water : 0.003347 ± 0.000023 g/L at $20 \pm 0.5^\circ\text{C}$. In organic solvent: Acetone: >250 Methanol: 10 to 14 Ethyl acetate: 80 to 100 Dichloromethane: 133 to 160 p-Xylene: 4.157 ± 0.023 n-Heptane: 0.0670 ± 0.0007 all in g/l $20 \pm 0.5^\circ\text{C}$
xv. Partition coefficient: n-octanol/water	:	$\log P_{ow} = 2.076 \pm 0.004$ at $20 \pm 1^\circ\text{C}$
xvi. Auto-ignition temperature	:	No data available
xvii. Decomposition temperature	:	No data available
xviii. Viscosity	:	Not available
xx. Others Oxidizing properties	:	Non-oxidising
SECTION 10: Stability and reactivity		
10.1 Reactivity	:	None reasonably foreseeable.
10.2 Chemical stability	:	Stable under normal conditions



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10.3 Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.		
10.4 Conditions to avoid	:	None known.		
10.5 Incompatible materials	:	None known.		
10.6 Hazardous decomposition products	:	No hazardous decomposition products are known.		
SECTION 11:Toxicological information				
11.1 Acute Toxicity				
Exposure	Measurement (species)	Value	Hazard Category	
Oral	LD ₅₀ (Rat) mg/kg body weight	>2000	GHS Category 5	
Dermal	LD ₅₀ (Rat) mg/kg body weight	>2000	GHS Category 5	
Inhalation	LC ₅₀ (Rat) mg/l air	>5.59	Unclassified	
Skin corrosion/irritation	(Rabbit)	Non-Irritant	Unclassified	
Serious eye damage/ irritation	(Rabbit)	Non-Irritant	Unclassified	
Skin sensitization	(Guinea pig)	Non sensitizer	Unclassified	
11.2 Germ cell mutagenicity	:	Non-mutagenic		
11.3 Carcinogenicity	:	NOAEL = 50 ppm or 2.05/2.69 (M/F) mg/kg/day Non- carcinogenic		
11.4 Reproductive toxicity	:	NOAEL = 2000 ppm (135 mg/kg/day) No reproductive effect		
11.5 STOT Repeated exposure	:	Not available		
SECTION 12: Ecological information				
12.1 Aquatic Toxicity				
Organism	Species	Unit	Value	Hazard Category
Toxicity to fish	Rainbow trout	LC ₅₀ (96 hrs) mg/L	>2.2	GHS Category 2
Toxicity to aquatic invertebrates	Daphnia magna (Water flea),	EC ₅₀ (48 hrs) mg/L	>4.4	GHS Category 2
Toxicity to aquatic plants	Algae	E _r C ₅₀ (72 hrs) mg/L	0.00038	GHS Category 1
12.2 Persistence and degradability				
	:	Non- persistence		
12.3 Bioaccumulative potential				
	:	Low potential of accumulation		
12.4 Mobility in soil				
	:	Moderately mobile		
12.5 Other adverse effects				
Results of PBT and vPvB assessment	:	Not classified as PBT and vPvB		
SECTION 13 : Disposal considerations				
Waste treatment methods	:	Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration.		



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		If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging	:	Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN Number

ADR/RID: UN3077

IMDG: UN3077

IATA: UN3077

14.2 UN Proper Shipping Name

ADR/RID:

ENVIRONMENTALLY
HAZARDOUS SUBSTANCE,
SOLID, N.O.S. Pyroxasulfone

IMDG:

ENVIRONMENTALLY
HAZARDOUS SUBSTANCE,
SOLID, N.O.S. Pyroxasulfone

IATA:

ENVIRONMENTALLY
HAZARDOUS SUBSTANCE,
SOLID, N.O.S. Pyroxasulfone

14.3 Transport Hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

14.4 Packing group, if applicable

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards Marine pollutant

ADR/RID: Yes

IMDG: Yes

IATA: Yes



14.6 Special precautions for user

: None

14.7 Transport in bulk according to IMO instruments

Transport in bulk according to
Annex II of MARPOL 73/78 and the
IBC Code :

: Not applicable for product as supplied.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question.

Full text of H-Statements : H400 Very toxic to aquatic life

REACH - Candidate List of
Substances of Very High Concern
for Authorisation : No

Regulation (EC) No 1005/2009 on
substances that deplete the ozone
layer : No

Regulation (EC) No 850/2004 on
persistent organic pollutants : No

SECTION 16 : OTHER INFORMATION

16.1 Information on revision



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16.2 Abbreviations and acronyms

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

- The Pesticide Manual, British Crop Production Council
- Unpublished reports – GSP Crop Science Limited, India.
- PPDB- Pesticide Properties DataBase
- PubChem- Public Chemical Database

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.