



# Safety Data Sheet

Preparation Date

13-Apr-2020

Revision Date September 2021

Revision Number : 02

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### 1.1 Identification of the product

Product Description

GPH-1420

### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended use

R&D material to be handled by technically qualified individuals only

### 1.3 Details of the Supplier of the Safety Data Sheet

UPL Limited

Uniphos House, Madhu Park,

Khar (W), Mumbai, India

Tel: +91-(022)- 2646-8000

E-mail address

info.in@uniphos.com

### Emergency Telephone Number

Company Phone Number

+91-(022)- 2646-8000

Emergency telephone number

+91-(022)- 2646-8000 (From 9:00 A.M. to 5:00 P.M.)

## 2. Hazard Identification

### 2.1 Classification of the substance or Mixture

#### Classification

Skin sensitization

Category 1 - (H317)

Carcinogenicity

Category 2 - (H351)

STOT - Repeated Exposure Acute

Category 2 - (H373)

Aquatic Toxicity

Category 1 - (H400)

Chronic Aquatic Toxicity

Category 1 - (H410)

### 2.2 Label elements

Symbol

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Signal Word

WARNING

Hazard Statement

H317 May cause an allergic skin reaction  
 H351 Suspected of causing cancer  
 H373 May cause damage to organs through prolonged or repeated exposure Very  
 H410 toxic aquatic life with long lasting effect

Precautionary Statements

P202 Do not handle until all safety precautions have been read and understood.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/ protective clothing.  
 P273 Avoid release to environment.  
 P302+P352 IF ON SKIN: Wash with plenty of water and soap.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
 P363 Wash contaminated clothing before reuse.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container to an approved waste disposal plant.

## 2.3 Other hazards

No information available

## 3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %
Pyroxasulfone	447399-55-5	80 - 95
Diatomaceous earth	61790-53-2	1 - 5

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

## 4. First aid measures

### 4.1 Description of first-aid measures

General advice

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)



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Eye contact IF IN EYES: Rinse cautiously with water for 15-30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Skin contact Take off contaminated clothing and shoes immediately. Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician

Ingestion Move the victim to fresh air and keep at rest. If symptoms persist, call a physician.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

## 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

## Indication of immediate medical attention and special treatment needed

Treat symptomatically and supportively.

## 5. Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Sand Unsuitable  
extinguishing media None

### 5.2 Special hazards arising from the substance or mixture

Special Hazard In the event of fire the following may be released: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Hydrogen fluoride, Hydrogen cyanide (hydrocyanic acid)

### 5.3 Advice for Firefighters

Wear self-contained breathing apparatus and protective suit. In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of involved material.

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Wear suitable protective equipment (See section 8).

### 6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.



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## 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up or vacuum up spillage and collect in suitable container for disposal.

## 6.4 Reference to other sections

Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## 7. Handling and Storage

### 7.1 Precautions for Safe Handling

#### 7.1.1 Handling

Minimize dust generation and accumulation. Wash hands, face and exposed skin thoroughly after handling. Routine housekeeping should be instituted to avoid dispersal of dust. Contaminated clothing should not be allowed at the workplace. Avoid breathing dust and vapour. Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking.

#### 7.1.2 Hygiene measures

Wash hands, face and exposed skin thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Avoid storage near extreme heat, ignition sources or open flames. Store away from foodstuff. Store away from oxidizing agents. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end uses

Laboratory chemical, Manufacture of substances.

## 8. Exposure Controls/ Personal Protection

### 8.1 Control Parameters

Exposure Limits

Apply technical measures to comply with the occupational exposure limits.

Components	CAS-No.	Control parameters	Update	Basis
Diatomaceous earth (Inhalable dust.)	61790-53-2	10 mg/m <sup>3</sup> (TWA)	04 2013	AU NOEL

Derived No Effect level (DNEL)

No information available

Predicted No Effect Concentration

No information available

### 8.2 Exposure Controls



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Appropriate Engineering Control Ensure adequate ventilation, especially in confined areas. If applicable, use process enclosure, local exhaust ventilation, or other engineering controls to maintain airborne level below recommended exposure limits. If exposure limits have not been established maintain airborne levels to acceptable level.

## Personal protective equipment

Eye protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(US) or EN 166(EU)

Skin protection Long-sleeved clothing. Preventative skin protection is recommended.

Hand protection Wear suitable protective glove/clothing. 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 accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

Environmental exposure controls Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	light brown water-dispersible granules, cylindrical
Physical state	Solid
Odor	Odorless
Odor threshold	No information available

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
pH	7.0 - 10.0 (1 %)	
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	Not applicable	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability or explosive limits	No information available	
Upper	No information available	
Lower	No information available	
Bulk Density	No information available	
Vapor Density	No information available	



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Vapor pressure (air = 1) Water solubility 0.0000024 Pa (25 °C) (A.I)  
No information available

Solubility in Other Solvents No information available

Partition coefficient: n -octanol/water log Pow: 2.39 (25 °C)

Autoignition temperature No information available

Decomposition temperature No information available

Viscosity No information available

Oxidizing properties No information available

Explosive properties No information available

Surface Tension No information available

## 10. Stability and Reactivity

### 10.1 Reactivity

None known

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reaction

None under normal processing

### 10.4 Conditions to avoid

Avoid dust formation. Exposure to elevated temperature may cause product to decompose.

### 10.5 Incompatible Materials

Strong acids, Strong bases

### 10.6 Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions: Hydrogen fluoride, Nitrogen oxides, Sulphur oxides and Hydrogen cyanide.

## 11. Toxicological Information

### 11. 1 Information on Toxicological Effects



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Acute oral toxicity – LD50 > 2000 mg/kg

Acute inhalation toxicity - LC50 (Rat) 5.8 mg/l , (4h)

Acute dermal toxicity - LD50 (Rat) > 2,000 mg/kg

## Local effect

Inhalation	May be harmful if inhaled
Eye contact	Causes eye irritation
Skin contact	No irritation
Ingestion	Not Classified

## Chronic toxicity

Skin Corrosion/Irritation	No irritation
Eye damage/irritation	Slight eye irritation
Sensitization	Sensitising (Guinea pig)
Mutagenic effects	None known
Carcinogenic effects	Pyroxasulfone was not carcinogenic in lifetime feeding studies in mice. Pyroxasulfone caused an increased incidence of tumours in rats in the following organ(s): urinary bladder. The tumours seen with Pyroxasulfone were caused through a non-genotoxic mechanism, which is not relevant at low doses
Reproductive effects	None known
STOT - Single Exposure	Based on available data, the classification criteria are not met
STOT - repeated exposure	Pyroxasulfone caused specific target organ toxicity in experimental animal studies in the following organ(s): Liver, Kidney, urinary bladder, Heart
Aspiration hazard	Based on available data, the classification criteria are not met.

## 12. Ecological Information

### 12.1 Ecotoxicity

Chemical Name	Fish/96hr/LC50	Daphnia/48hr/EC50	Alga/72hr/EC50
pyroxasulfone	>2.2 mg/L	>4.4 mg/L	0.00079 mg/L

(Source: PPDB)

### 12.2 Persistence and Degradability

No information available

### 12.3 Bioaccumulative Potential

No information available

### 12.4 Mobility in Soil



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No information available

## 12.5 Results of PBT and vPvB Assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

## 12.6 Other Adverse Effects

No other adverse effects identified.

## 13. Disposal Considerations

### 13.1 Waste Treatment Methods

Waste from Residues / Unused Products

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse empty containers. Dispose of this container to hazardous or special waste collection point.

## 14. Transport Information

### IMDG/IMO

UN-No	UN 3077
Proper Shipping name	Environmentally hazardous substance, solid, n.o.s. (PYROXASULFONE MIXTURE)
Hazard class	9
Packing group	III
Environmental Hazard	Yes

### IATA/ICAO

UN-No	UN 3077
Proper Shipping name	Environmentally hazardous substance, solid, n.o.s. (PYROXASULFONE MIXTURE)
Hazard class	9
Packing group	III
Environmental Hazard	Yes

## 15. Regulatory Information

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### International Inventories

USINV - TSCA -	
EINECS/ ELINCS	-
DSL/NDSL - PICCS	-
ENCS - China - AICS -	
KECL	-



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## Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances PICCS -

Philippines Inventory of Chemicals and Chemical Substances ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances AICS - Australian

Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

## 16. Other Information

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End of Safety Data Sheet