



SWATI SPENTOSE PVT. LTD. UNIT-I

Manufacturing Site: A-1/2102 & 2103, Phase-III, G.I.D.C, Vapi-396 195, Gujarat. India

Safety Data Sheet


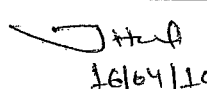
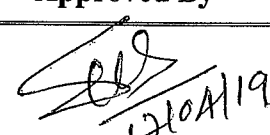
Document No.: FP/PPS/SDS/010/00	Revision No.: 00
Effective Date: 18/04/2019	Supersede No.: Nil
Product Name: Pentosan Polysulfate Sodium	Page 1 of 10

1) Product and company Identification

GHS Product Identifier	Pentosan Polysulfate Sodium.
CAS Number	140207-93-8
EC Number	Not available.
Chemical Name	[(2R, 3R, 4S, 5R)-2-hydroxy-5- [(2S, 3R, 4S, 5R)-5-hydroxy-3, 4-disulfooxyoxan-2-yl] oxy-3-sulfooxyoxan-4-yl] hydrogen sulphate.
Other means of Identification	(1→4)-β-D-Xylan 2,3-bis (hydrogen sulphate) sodium; Xylan hydrogen sulphate sodium salt; Xylan Polysulfate sodium; Sodium Pentosan Polysulfate; Sodium Pentosan Polysulfate; Xylan sulphate sodium; Xylofuranan sulphate sodium; Sodium xylan Polysulfate.
Chemical Formula	[C ₆₂ H ₇₂ O ₁₂₂ S ₂₄ Na ₂₅] _x (where x = 1 to 1.5)
RTECS	Not available.
Recommended use of the chemical and restrictions on use.	Anti-coagulating agent
Supplier Details Including name, address, phone number etc.)	Swati Spentose Pvt Ltd. Corporate Office: 114, Marine Chambers, 11 New Marine Lines, Mumbai-400020, India Manufacturing Unit: A-1/2102 & 2103, Phase-III, G.I.D.C, Vapi-396195, Gujarat, India
Emergency Phone Number	0260-2433133

2) Hazards Identification

GHS Classification of the substance/mixture and any national or regional information	Harmful if swallowed (Category 4), Serious/Irritating to Eyes (Category 2A), and target Organ Systemic Toxicity (Category 3), May cause Causes skin Irritation (Category 2).
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Activity	Prepared By	Checked By	Approved By
Sign & Date	 16/04/19	 16/04/19	 12/04/19
Name & Designation	Mr. Sushant Rai Officer-EHS	Mr. Jitendra Varma Project & MNT - Head	Mr. S. K. Srivastava Corporate Head QA & QC

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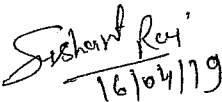
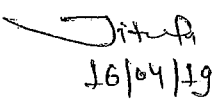
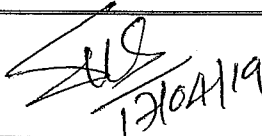
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Label elements	<p>Labelling according to Regulation (EC) No 1272/2008 [CLP]</p> <p>Pictogram(s):</p>  <p>GHS07</p> <p>Signal word: Warning</p> <p>Hazard statement(s):</p> <p>H302 Harmful if swallowed</p> <p>H315 Causes skin irritation</p> <p>H319 Causes serious eye irritation</p> <p>H335 May cause respiratory irritation</p> <p>Precautionary statement(s):</p> <p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray</p> <p>P305+P351+P338 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</p> <p>P332+P350 IF SKIN irritation occurs: Gently wash with plenty of soap and water.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>Swati Spentose Pvt Ltd. A-1/2102 & 2103, Phase-III, G.I.D.C Vapi-396195, Gujarat, India Ph. No: 0260-2433133</p>
	Other hazards which do not covered by GHS.

3) Composition/Information on Ingredients

Name	CAS #	% by Weight
Pentosan Polysulfate Sodium.	140207-93-8	100%

Toxicological Data on Ingredients: Pentosan Polysulfate Sodium Oral LD50 (Mouse): 300 mg/kg, Rabbit eye: 100mg/24 moderate, Oral rabbit LD50: 3200mg/kg Oral rat LD50: 980mg/kg, LC50: Not

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available. Dermal LD50: Not available.

4) First-Aid-Measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact and ingestion.	<p>Eye Contact: Flush with copious amounts of water for at least 15 minutes. Consult a doctor.</p> <p>Skin Contact: Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.</p> <p>Serious Skin Contact: Not available.</p> <p>Inhalation: May cause breathing difficulty. Remove to fresh air and seek medical attention. If breathing is difficult, give oxygen.</p> <p>Serious Inhalation: Not available.</p> <p>Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.</p> <p>Serious Ingestion: Not available</p> <p>If swallowed: May cause pain, vomiting and diarrhea. Wash out mouth with water and drink 2-4 cups of milk or water, seek medical attention.</p>
	<p>Most important symptoms /Effects/, Acute and Delayed.</p> <p>To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.</p>
<p>Indication of immediate medical attention and special treatment needed, if necessary</p> <p>Not available.</p>	

5) Fire Fighting Measures

Suitable and unsuitable extinguishing media.	<p>Flammability of the Product: Not available.</p> <p>Auto-Ignition Temperature: Not available.</p> <p>Flash Points: Not available.</p> <p>Flammable Limits: Not available.</p>
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Sign & Date	<i>Sushant Rai</i> 16/04/19	<i>Jitendra</i> 16/04/19	<i>S.K. Srivastava</i> 17/04/19
Name & Designation	Mr. Sushant Rai Officer-EHS	Mr. Jitendra Varma Project & MNT - Head	Mr. S. K. Srivastava Corporate Head QA & QC

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	<p>Products of Combustion:These products are carbon oxides (CO, CO2).</p> <p>Fire Hazards in Presence of Various Substances: Likely to emit irritating fumes under fire conditions. Take reasonable care to avoid contamination of watercourses and drains.</p> <p>Explosion Hazards in Presence of Various Substances:Risk of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.</p> <p>Fire Fighting Media and Instructions: SMALL FIRE: Use DRY chemical powder. LARGE FIRE:water spray, dry chemical powder, carbon dioxide or foam.</p> <p>Special Remarks on Fire Hazards:Not available. Special Remarks on Explosion Hazards:Not available.</p>
Specific hazardous arising from the chemical	Not available.
Special precautions for fire-fights	Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

6) Accidental Release Measures

Personal Precautions, Protective Equipment and emergency procedures.	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.
Environmental Precautions. Methods and materials for containment and cleaning up.	Do not let product enter drains.

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Methods and material for containment for and cleaning up.	Sweep up and place in closed containers for waste disposal. Avoid raising dust. Ventilate area and thoroughly wash spill site after material pickup is complete.
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7) Handling & Storage

Precautions for safe handling	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation.
Conditions for safe storage, including any incompatibilities	Keep the container tightly closed. Store in the original package.

8) Exposure Controls/Personal Protection

Control parameter	Exposure Limits: Not available
Appropriate engineering controls	Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.
Individual Protection measures, Such as personal protective equipment	<p>Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.</p> <p>Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be enough; consult a specialist BEFORE handling this product.</p>

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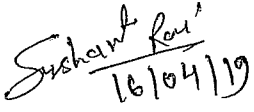
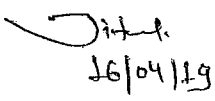
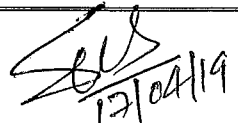
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9) Physical and Chemical Properties

Appearance (Physical state, colour, etc.)	Solid, White to pale yellow powder.
Odour	Odourless.
Odour Threshold	Not available.
pH (1% soln./water)	4-6
Melting Point, range /Freezing Point	Not available.
Initial boiling point and boiling range	Not available.
Flash Point	Not available.
Evaporation Rate	Not available.
Flammability (Solid, Gas)	Not available.
Upper/Lower Flammability or Explosive Limits	Not available.
Vapour Pressure	Not available.
Vapour Density	Not available.
Relative Density	Not available.
Solubility in / Miscibility with	Soluble in water, soluble in 0.1N NaOH solution and practically insoluble in methanol.
Solubility in water	Soluble.
Molecular weight	4000 to 6000 Daltons.
Partition Coefficient	Not available.
Auto-ignition Temperature	Not available.
Decomposition Temperature	Not available.

10) Stability & Reactivity Data

Chemical Stability	Material is stable under normal conditions.
Possibility of Hazardous Reactions	Not available.
Conditions to Avoid	Not available.
Incompatible Materials	Strong oxidising agents and strong bases.
Hazardous Decomposition	Toxic fumes of Carbon monoxide, carbon dioxide, and

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Corrosivity	Not available.
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.
Polymerization	Not available.

11) Toxicological Information

Information on the Likely routes of exposure	Dermal contact. Eye contact. Inhalation. Ingestion.
Symptoms related to the Physical, Chemical and Toxicological characteristics;	Not available.
Delayed and immediate effects and also chronic effects from short-and long-term exposure;	Chronic Effects on Humans:Not available. Other Toxic Effects on Humans:Not available. Special Remarks on Toxicity to Animals:Not available. Special Remarks on Chronic Effects on Humans:Not available. Special Remarks on other Toxic Effects on Humans: Not available.
Acute Toxicity (such as acute toxicity estimates).	Not available.
Information on Toxicological Effects	LD50/oral/rat = 980mg/kg LD50/oral/mouse = 300 mg/kg LD50/oral/rabbit = 3200mg/kg LD 50 (Intraperitoneal) =Not available. LD 50 (Intravenous) =Not available. LD50/dermal/rat = Not available. LC50/inhalation/rat = Not available. LC50/inhalation/mouse = Not available.
Target Organ Systemic Toxicity: Single Exposure & Repeated Exposure	Respiratory tract irritation

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12) Ecological Information

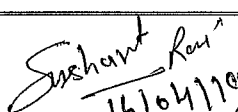
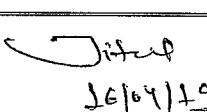
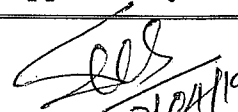
Eco toxicity (aquatic and terrestrial, where available).	No specific ecology data is available. Do not allow to enter drains, sewers and watercourses.
Persistence and degradability	BOD5 and COD: Not available. Products of Biodegradation: Not available. Toxicity of the Products of Biodegradation: Not available. Special Remarks on the Products of Biodegradation: Not available.
Bio accumulative Potential	Not available.

13) Disposal Consideration

Description of waste residues and information on their safe handling and methods of disposal, including any contaminated packing.	Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Contaminated packaging: Disposal should be in according with local, state or federal legislation. Dispose of as hazardous waste. Incineration is recommended
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14) Transport Information

UN Number	Not available.
UN Proper Shipping Name	Not available.
Transport Hazard Class (es).	Not available.
Packaging group (DOT, ADR, IMDG, IATA)	Not available.
Environmental hazards	Not available.
Special precautions which a user needs to be aware of or needs comply with in connection with transport or conveyance either within or	Not available.

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15) Regulatory Information

Safety, Health and environmental regulations specific for the product on question.

Federal and State Regulations:

Other Regulations: European Labelling in accordance with EC directives. Hazard Symbols: XN, Risk Phrases: R-22 (Harmful if swallowed). Safety Phrases: WGK (Water Danger/Protection). Canada: CAS# is listed on the Canada's DSL list. CAS# is not listed on the Canada's Ingredient Disclosure list. CAS# is listed on the TSCA inventory.

Other Classifications:

HMIS (U.S.A.): Not available.

Health Hazard: Not available.

Fire Hazard: Not available.

Reactivity: Not available.

Personal Protection: Not available.

National Fire Protection Association (U.S.A.): Not available.

Health: Not available.

Flammability: Not available.

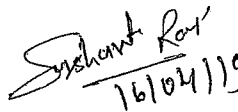
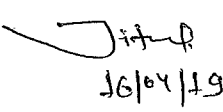
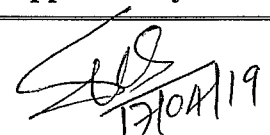
Reactivity: Not available.

Specific hazard: Not available.

16) Other Information

Other information including information on preparation and revision of SDS

This data is furnished gratuitously independent of any sales of the product and only for your investigation and independent verification. While the information is believed to be correct, Swati Spentose Private Limited shall in no event be any responsible for any damages whatsoever, directly or indirectly resulting in the use of or reliance upon data contained herein. No warranty, either expressed or implied, or merchantability, of fitness, or of any nature with respect to the product, or to the data, is made herein. You are urged to obtain data sheets for all Swati Spentose Private Limited products you buy, process, use or distribute, and encouraged to advise anyone working with or exposed to such products of the information contained herein.

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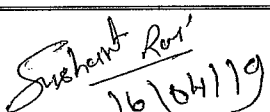
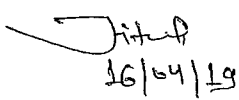
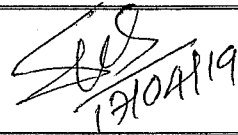
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Abbreviation:

CAS No.	Chemical Abstract Service Number
RTECS	Registry of Toxic Effects of Chemical Substances
DOT	Department of Transportation
UN	United Nations
LD	Lethal dose
NTP	National Toxicology Program)
IARC	International Agency for Research on Cancer

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