SECTION 1: IDENTIFICATION

Product Identifier

Product Name: SUPER ABSORBENT POLYMER
SDS Numbers: SHCPCHE22000093-01; SHACPCH22003720101
Issue Date: 01/06/2024
Revision Date: 22/10/2026
Supersedes Date: 01/06/2024

Intended Use of the Product

For use in hospitals, clinics, and healthcare settings within sanitary towels, diapers and pads, urine-absorbing aids for incontinence, medical mattresses, absorbent paper, slow release medicine, paste, water bag etc.

For use in industry within waterproof expansion rubber, cable paste, water absorption anti-fouling coating, anti-static coating, anti-condensation coating, oilfield water plugging and oil-water separation, concrete maintenance etc.

For use in agriculture and gardening within soil water conservation, seed coating, seed dressing and growing seedlings.

For use in the food industry within preservatives for fruits and vegetables.

Uses Advised Against

Intentional and unintentional use in the following situations, particularly when involving contact with food, drink, medicine, toys, artificial organs, water pillows and diapers, sanitary napkins, pet urine pads, or water-absorbing pads:

1) In contacting with skin and dermal
2) In being induced or absorbed in the body
3) In contacting with food via the water absorbed in it
4) In being let to emit water absorbed once and re-absorbed water
5) With possibility of 1 to 4

Name, Address, and Telephone of the Responsible Party

SafetyGel, Unit 7 Horsfield Way,
Bredbury Park Industrial Estate, Bredbury,
Stockport, SK6 2SU

Tel: +44 (0) 161 274 1080
Email: sales@datesand.com
Web: safetygel.co.uk

Hours of operation: 8am - 4pm BST

Emergency Response

If ingested seek medical advice immediately

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance of Mixture

The product is not classified according to the CLP regulation and has not been deemed a threat to humans and the environment.

The product is not classified as hazardous according to the CLP regulation (EC) No. 1272/2008.

The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008.

Hazard Summary: Dust may cause eye, skin and respiratory tract irritation.

Label Elements

Hazard Pictograms: None
Signal Word: None
Hazard Statements: The mixture does not meet the criteria for classification

Precautionary Statements

Prevention: The product becomes slippery when wet
Response: P312 Seek medical advise if you feel unwell
Storage: Store as indicated in Section 7
Disposal: For waste disposal, see section 13 of the SDS
Supplemental Label Information: None

Other Hazards

No other hazards have been identified as this product is not classified according to the CLP regulation (EC) No. 1272/2008.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances

Name	CAS No.	% Composition
2- Propenoic acid, Homopolymer	9003-01-4	95 ± 2%
Water	7732-18-5	5 ± 2%

Both of the above ingredients are not classified according to the Regulation (EC) No. 1272/2008.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists

Skin Contact: Immediately flush skin with copious amount of water. Obtain medical attention if irritation develops or persists

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists

Ingestion: Remove as much material as possible from the mouth. Seek doctor immediately. Only induce vomiting at the instruction of medical personnel, rinse mouth out thoroughly with plenty of water and spit, do not swallow

Indication: Choking, nausea, and stomach-ache

Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice.

Advice For First-Aid Person: Remove any remaining absorbent from the oral cavity. Ensure airway is clear. Seek medical advice

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry powder, carbon dioxide, foam, water spray

Unsuitable Extinguishing Media: None known

Special Hazards Arising From the Substance or Mixture

By heating and fire, harmful vapours/gases may be formed.

Advice for Firefighters

Special Protective Equipment: Wear protective clothing, safety goggles and self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection

Special Fire Fighting Procedures: Move containers from fire area if you can do so without risk. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply. Use water spray to keep fire-exposed containers cool. Use standard firefighting procedures and consider the hazards of other involved materials

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General measures: Avoid unnecessary contact with dust on skin, eyes, or clothing,etc. Avoid breathing (dust). Avoid creating dusty conditions whenever feasible

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE)

Emergency Procedures: Evacuate unnecessary personnel. Be aware of potential for surfaces to become slippery as the product becomes slippery when wet

For Emergency Personnel

Protective Equipment: Equip clean-up crew with proper protection

Emergency Procedures: Eliminate ignition sources. Ventilate area

Environmental Precautions

Do not let the product enter into water courses or into the environment.

Methods and Material for Containment and Cleaning Up

For Containment: Dry sweeping can contain spilled product. Avoid generation of dust during clean-up of spills. Use only non-sparking tools

Methods for Cleaning Up: Collect product by mechanical means. For dust use explosion proof vacuum during clean-up, with appropriate filter, do not mix with other materials. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Avoid generation of dust during clean-up of spills. Do not rinse with water. Moist product: Absorb the remainder with an inert absorbent material. Wear protective clothing, safety goggles and effective mask to prevent the dust from contacting eye and skin

Disposal Advice To Prevent Secondary Disaster: Products become slippery when wet

Reference to Other Sections

See Section 7 for information on safe handling. See Section 8 for controls and personal protection. See Section 13 for disposal after cleaning.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Accumulation and dispersion of dust generated from this product with an ignition source can cause a combustible dust explosion, keep dust levels to a minimum and follow applicable regulations.
Ensure good ventilation/ exhaustion at the workplace. Keep away from heat, sparks, flame and all other ignition sources. Avoid contact with skin and eyes.

Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Refer to Section 8 for general occupational hygenic measures.

Take normal measures for preventative fire protection.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Avoid creating or spreading dust generated from this product. Use explosion-proof electrical, lighting, ventilating equipment. Proper grounding procedures to avoid static electricity

Storage Conditions: Avoid humidity, especially the direct contact with water. Store in a dry, cool and well-ventilated place away from oxidising agents and foodstuffs. Keep/Store away from direct sunlight, incompatible materials, heat, hot surfaces, sparks, open flames, and other ignition sources. Store in well sealed receptacles. Provide electrical earthing of equipment and electrical equipment in explosive atmosphere

Recommended Packing: The material must be watertight
Incompatible Materials: Oxidizers. Drying oils

Specific End Use(s)

Used as an absorbent in various industries. See Section 1 for more detail

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs: Data not available
PNECs: Data not available

Exposure Controls

Use individual protection measures, such as personal protective equipment.

Hand Protection:	Gloves. The glove material must be impermeable and resistant to the product
Eye Protection:	Safety glasses / goggles
Skin and Body Protection:	Protective work clothing. Wear Non-skid Boots
Respiratory Protection:	Suitable respiratory protective device recommended
Thermal Hazards:	Not required for normal use
Environmental Exposure Controls:	Control measures must be made in accordance with community environmental protection legislation
Appropriate Engineering Controls:	Provide adequate ventilation. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment)
Hygiene Measures:	Observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants
Environmental Exposure Controls:	Contain spills and prevent releases and observe national regulations on emissions

Additional Information

Biological Limit Values:	No biological exposure limits noted
Recommended Monitoring Procedures:	Follow standard monitoring procedures
Derived No Effect Levels (DNELs):	Not available
Predicted No Effect Levels (PNECs):	Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State:	Solid
Appearance:	White
Form:	Granule
Odour:	Odourless
PH (5 g/l) at 25°C:	6.1
Flammability:	Not flammable
Decomposition Temperature:	Above 300°C
Auto-ignition Temperature:	Above 400°C
Explosive Properties:	Dust lower explosion limit above 1200 g/m³
Solubility(ies) in Water:	Insoluble, swells in water
Density:	0.65-0.85 g/cm³
Relative Density:	0.5-0.66 (relative air)

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No decomposition if used according to specification. This product is stable and non-reactive under normal conditions of use, storage and transport
Chemical Stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	Absorbs water and becomes slippery. Dust may form explosive mixture with air
Conditions to Avoid:	Ignition sources. Keep away from moisture
Incompatible Materials:	None
Hazardous Decomposition Products:	During combustion - Carbon oxides. Organic vapour

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Information on hazard classes as defined in Regulation (EC) No. 1272/2008.

General Information

Occupational exposure to the substance or mixture may cause adverse effects

Information on Likely Routes of Exposure

Inhalation: Dust may irritate respiratory system

Skin Contact: Dust may cause irritations through mechanical abrasion

Eye Contact: Dust may irritate eyes

Ingestion: May cause discomfort if swallowed

Symptoms

Dust may irritate the eyes and the respiratory system. May cause redness and pain.

Acute Toxicity: May cause discomfort if swallowed

LD/LC50 Values Relevant for Classification:		
9003-01-04 2-Propenoic acid, Homopolymer		
Oral, LD50	Mouse	4,600 mg/kg
	Rat	2,500 mg/kg

Skin Corrosion/ Irritation: Not irritant (Human,Rabbit)

Serious Eye Damage/ Irritation: None (Rabbit)

Respiratory Sensitisation: No data available

Skin Sensitisation: Not a skin sensitiser (Guinea pig)

Based on Available Data, The Classification Criteria Are Not Met For: Specific target organ toxicity - single exposure, Specific target organ toxicity - repeated exposure, Reproductive Toxicity, Aspiration hazard, Germ Cell Mutagenicity, Carcinogenicity.

SECTION 12: ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous. However, this does not exlude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Aquatic Toxicity:	No relevant information available.
Persistence and Degradeability:	This product is compostable not biodegradable.
Bioaccumulative Potential:	No relevant information available.
Mobility in Soil:	No relevant information available.
Results of PBT and vPvB Assessment:	Not applicable.
Endocrine Disrupting Properties:	The product does not contain substances with endocrine disrupting properties.
Other Adverse Effects:	No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendation:	Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.
Uncleaned Packaging Recommendation:	Disposal must be made according to official regulations. Emptied containers may retain product residue, follow label warnings even after container is emptied.
EU Waste Code:	16 03 06 Organic Waste. Waste codes should be assigned by the user based on the application for which the product was used.
Disposal Methods/ Information:	Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

SECTION 14: TRANSPORT INFORMATION

This product is not classified as hazardous for transport according to ADR/RID/ADN, IMDG, IATA, or other transport regulations. No special transport precautions are required.

General Information:	Be careful for falling or damage in loading. Avoid contact with water and moisture. Avoid shipment with strong odoriferous things.

SECTION 15: REGULATORY INFORMATION

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

Directive 2012/18/EU	
Named dangerous substances - ANNEX I:	Substance is not listed
REGULATION (EU) 2019/1021 on persistent organic pollutants (POP):	None of the ingredients is listed
REGULATION (EU) No 649/2012:	None of the ingredients is listed
REGULATION (EU) No 2019/1148:	
Annex I - RESTRICTED EXPLOSIVES PRECURSORS: (Upper limit value for the purpose of licensing under Article 5(3))	None of the ingredients is listed
Annex II - REPORTABLE EXPLOSIVES PRECURSORS:	None of the ingredients is listed
REGULATION (EC) No 273/2004 on drug precursors:	None of the ingredients is listed
REGULATION (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors:	None of the ingredients is listed
REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer - ANNEX I (Ozone-depleting potential):	None of the ingredients is listed

Other Regulations, Limitations, and Prohibitive Regulations

SVHC Candidate List of REACH Regulation Annex XVI Authorisation (10/06/2022):	None of the ingredients is listed
REACH Regulation Annex XVII Restriction (13/12/2021):	None of the ingredients is listed. See section 16 for information about restriction of use
REACH Regulation Annex XIV Authorisation List (8/4/2022):	None of the ingredients is listed
Chemical Safety Assessment:	A Chemical Safety Assessment has not been carried out

SECTION 16: Other Information

The content and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2020/878.

List of Abbreviations and Acronyms

ADR:	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic
SVHC:	Substances of Very High Concern
vPvB:	very Persistent and very Bioaccumulative

DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Further Information

All ingredients are either listed or exempt from listing on TSCA.
All ingredients are either listed or exempt from listing on EINECS/ELINCS.
All ingredients are either listed or exempt from listing on ENCS.