SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) (as amended by Regulation (EU) 2020/878), and UK REACH

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name:	Polypropylene Shred
Product Description:	Polypropylene
Chemical Name:	Polypropylene, amorphous; 1-Propene, homopolymer
CAS Number:	9003-07-0
EC Number:	618-352-4
REACH Registration Number:	A REACH registration number is not available for this substance as the substance or its uses are exempted from registration, or the annual tonnage does not require a registration.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:	Water treatment and absorption
Sector of Use:	Professional use. Industrial use
Use advised against:	No information available

1.3 Details of the supplier of the safety data sheet

Name of Supplier:	Bowman Stor Ltd
Address of Supplier:	Unit 25 Maybrook Ind. Est. Maybrook Road Brownhills Walsall West Midlands WS8 7DG UK
Telephone:	+44 (0)1543 379212
Email:	info@bowmanstor.com

1.4 Emergency telephone number

Emergency Telephone:	+44 (0)1543 379212 (Office hours) National emergency NHS: 111 (members of the public) UK National Poisons Information Service: 0844 892 011 (Health Professionals Only)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Not classified

Additional information: For full text of Hazard- and EU Hazard-statements: see section 16

2.2 Label elements

Hazard pictograms: None

Signal Word: None

Hazard statements

None

Precautionary statements

None

Supplemental Hazard information (EU)

SECTION 2: Hazards identification (....)

None

2.3 Other hazards

Does not contain any substances considered to be PBT or vPvB at levels of 0.1% or higher

Does not contain any substances with endocrine disrupting properties at levels of 0.1% or higher

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical Name	Conc.	CAS No.	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	SCL/ M-Factor/ ATE	REACH Registration Number	WEL/ OEL
Polypropylene	> 99.7%	9003-07-0	618-352-4	Not classified	-	-	No

3.2 Mixtures

Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

Rescuers should put on approved personal protective equipment (PPE) before administering first aid

Rescuers should take suitable precautions to avoid becoming casualties themselves

Contact with eyes

If substance has got into eyes, immediately wash out with plenty of water for several minutes
Remove contact lenses, if present and easy to do. Continue rinsing.
Irrigate eyes thoroughly whilst lifting eyelids
If eye irritation persists: Get medical advice/attention.
In the event of burns from molten product, do not attempt to remove adhering material
Continue flushing with water until medical help arrives

Contact with skin

Remove contaminated clothing
Wash affected area with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention.
In the event of burns from molten product, do not attempt to remove adhering material
Cool affected skin as long as possible with cold water
Burns should be covered with a clean, dry non-fluffy material
Get immediate medical advice/attention.
If burned surface > 10%: take victim to hospital.

Ingestion

Rinse mouth with water
Never give anything by mouth to an unconscious person
If vomiting occurs turn patient on side
Get medical advice/attention if you feel unwell.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Apply artificial respiration only if patient is not breathing
If exposed or concerned: Call a doctor.

SECTION 4: First aid measures (....)

4.2 Most important symptoms and effects, both acute and delayed

Contact with eyes

The mechanical effect of the product in contact with eyes may cause temporary itching
Vapours from heated material may cause eye irritation
If in a fire or if heated the product may melt and cause thermal burns

Contact with skin

Prolonged or repeated exposure may cause irritation
If in a fire or if heated the product may melt and cause thermal burns

Ingestion

No hazard expected under normal conditions of use

Inhalation

Vapours from heated material may cause irritation of respiratory tract

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide
Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

May be combustible at high temperatures

If in a fire or if heated the product may melt and cause thermal burns

Fine dust clouds may form explosive mixtures with air

Decomposes on exposure to air: peroxidation resulting in increased fire or explosion risk. This reaction is accelerated on exposure to temperature rise and on exposure to light.

Gives off irritating or toxic fumes (or gases) in a fire.

Decomposition products may include carbon oxides (CO, CO_2)

5.3 Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water

Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.

Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents

Wear self-contained breathing apparatus (SCBA)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training

Only trained and authorised personnel should carry out emergency response

SECTION 6: Accidental release measures (....)

Personal precautions for non-emergency personnel: Evacuate the area and keep personnel upwind; Shut off all ignition sources; Damp down to avoid dust generation; Do not breathe dust; Avoid contact with skin and eyes

Personal precautions for emergency responders: Shut off all ignition sources; If dust is formed, wear approved dust mask; Wear protective clothing as per section 8; Wash thoroughly after dealing with spillage

6.2 Environmental precautions

Do not allow to enter public sewers and watercourses

If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

Wear protective clothing as per section 8

Evacuate the area and keep personnel upwind

Shut off all ignition sources

Equipment should be earthed

Damp down to avoid dust generation

Powdered form: do not use compressed air for pumping over spills

Confine spills of molten material and allow to solidify

Remove by mechanical means

Sweep or shovel-up spillage and remove to a safe place

Collect as much as possible in clean container for reuse or disposal

Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

See section(s): 7, 8 & 13 for more information

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid dust cloud formation and control ignition sources. If this material is to be reduced to, or collected as a powder, ensure a suitable design basis of safety is established per NFPA Standard 654: Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids, or comparable industry standard. Failure to establish a suitable design basis of safety may lead to a flash fire or explosion.

Provide appropriate exhaust ventilation at places where airborne dust is generated

Take precautionary measures against static discharges

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Powdered form: do not use compressed air for pumping

Do not breathe dust

If dust is formed, wear approved dust mask

Do not eat, drink or smoke when using this product.

Wear protective clothing as per section 8

Contaminated clothing should be laundered before reuse

Wash thoroughly after handling.

SECTION 7: Handling and storage (....)

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry well-ventilated place. Keep container tightly closed.

Keep only in the original container

Avoid extremes of temperature

Keep away from direct sunlight

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible with strong acids and alkalis (strong bases)

7.3 Specific end use(s)

Water treatment and absorption

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace exposure - Measurement of exposure by inhalation to chemical agents - Strategy for testing compliance with occupational exposure limit values). European Standard EN 14042 (Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents). European Standard EN 482 (Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents).
Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Polypropylene

No exposure limits have been set for this substance
The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m³ (8hr TWA) total inhalable dust; 4 mg/m³ (8hr TWA) total respirable dust

8.2 Exposure controls

Selection and use of personal protective equipment should be based on a risk assessment of exposure potential

Engineering controls

Ensure adequate ventilation
Provide appropriate exhaust ventilation at places where airborne dust is generated

Respiratory protection

Respiratory protection may be required if dust is formed or if the product is heated
Use type FFP1 or FFP2 (EN 143) dust masks
See European standard EN 529 for further guidance on the selection, use, care and maintenance of respiratory protective devices

Skin protection

Wear suitable protective clothing
Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.

Eye/face protection

SECTION 8: Exposure controls/personal protection (....)

If dust is formed, wear goggles giving complete eye protection approved to standard EN 166.

Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns

Hygiene measures

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air)
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
Contaminated clothing should be laundered before reuse

Environmental exposure controls

Avoid release to the environment.
Do not allow to enter public sewers and watercourses

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Solid, powder/grains
Colour:	White
Odour:	None
Melting point/freezing point:	80 - 167 °C
Boiling point or initial boiling point and boiling range:	Not applicable
Flammability:	Not flammable
Lower and upper explosion limit:	Not applicable
Flash point:	Not applicable
Auto-ignition temperature:	> 360 °C
Decomposition temperature:	> 300 °C
pH:	Not applicable
Kinematic viscosity:	Not applicable
Solubility:	Insoluble in water; Miscible with most organic solvents
Partition coefficient n-octanol/water (log value):	No data available
Vapour pressure:	Not applicable
Density and/or relative density:	0.86 - 0.93
Bulk Density:	860 - 930 kg/m³
Relative vapour density:	Not applicable
Particle characteristics:	No data available

9.2 Other information

Volatile Organic Compounds (VOC): 0 %
May generate electrostatic charges

SECTION 10: Stability and reactivity

10.1 Reactivity

Decomposes on exposure to air: peroxidation resulting in increased fire or explosion risk. This reaction is accelerated on exposure to temperature rise and on exposure to light.

10.2 Chemical stability

Considered stable under normal conditions

10.3 Possibility of hazardous reactions

SECTION 10: Stability and reactivity (....)

No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

Keep away from direct sunlight

Avoid extremes of temperature

10.5 Incompatible materials

Incompatible with strong acids and alkalis (strong bases)

10.6 Hazardous decomposition products

Decomposition products may include carbon oxides (CO, CO_2)

SECTION 11: Toxicological information

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

Acute Toxicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	LD_{50} (oral, rat)	LC_{50} (inhalation, rat)	LD_{50} (dermal, rabbit)
Polypropylene	> 5 000 mg/kg	No data available	> 2 000 mg/kg

Skin corrosion/irritation

Based on available data, the classification criteria are not met

Substances

Chemical Name	Irritation/corrosion
Polypropylene	No data available

Serious eye damage/irritation

Based on available data, the classification criteria are not met

Substances

Chemical Name	Irritation/corrosion
Polypropylene	No data available

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met

Substances

Chemical Name	Skin sensitisation	Respiratory sensitisation
Polypropylene	No data available	No data available

Germ cell mutagenicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	Toxicity - In Vitro	Toxicity - In Vivo
Polypropylene	No data available	No data available

SECTION 11: Toxicological information (....)

Carcinogenicity

Based on available data, the classification criteria are not met
Polypropylene is classified by IARC as Group 3 (Not classifiable as to its carcinogenicity to humans)

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Polypropylene	No data available	No data available	No data available

Reproductive toxicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Polypropylene	No data available	No data available	No data available

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met

Substances

Chemical Name	Route	Remarks
Polypropylene	Respiratory	No data available

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Polypropylene	No data available	No data available	No data available

Aspiration hazard

Based on available data, the classification criteria are not met

Contact with eyes

The mechanical effect of the product in contact with eyes may cause temporary itching
Vapours from heated material may cause eye irritation
If in a fire or if heated the product may melt and cause thermal burns

Contact with skin

Prolonged or repeated exposure may cause irritation
If in a fire or if heated the product may melt and cause thermal burns

Ingestion

No hazard expected under normal conditions of use

Inhalation

Vapours from heated material may cause irritation of respiratory tract

11.2 Information on other hazards

Does not contain any substances with endocrine disrupting properties at levels of 0.1% or higher

SECTION 12: Ecological information

12.1 Toxicity

Based on the available data, the classification criteria are not met

Substances

Chemical Name	LC_{50} (fish)	EC_{50} (aquatic invertebrates)	EC_{50} (aquatic algae)
Polypropylene	No data available	No data available	No data available

12.2 Persistence and degradability

Not readily biodegradable

Substances

Chemical Name	Biodegradation
Polypropylene	Not readily biodegradable

12.3 Bioaccumulative potential

Low bioaccumulation potential

Substances

Chemical Name	Bioconcentration Factor (BCF)	Log Kow
Polypropylene	Low potential for bioaccumulation	No data available

12.4 Mobility in soil

Insoluble in water

Substances

Chemical Name	Adsorption/desorption
Polypropylene	No data available

12.5 Results of PBT and vPvB assessment

Does not contain any substances considered to be PBT or vPvB at levels of 0.1% or higher

12.6 Endocrine disrupting properties

Does not contain any substances with endocrine disrupting properties at levels of 0.1% or higher

12.7 Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Avoid release to the environment.

Disposal should be in accordance with local, state or national legislation

Incineration by an approved method could be considered

Where possible recycling is preferred to disposal or incineration

Treat contaminated containers like the product itself

SECTION 13: Disposal considerations (....)

13.2 Classification

The waste must be identified according to the List of Wastes (2000/532/EC)

Hazardous Property Code(s): None assigned

SECTION 14: Transport information

Not classified as hazardous for transport

14.1 UN number or ID number

UN No.: Not applicable

14.2 UN proper shipping name

Proper Shipping Name: Not applicable

14.3 Transport hazard class(es)

Hazard Class: Not applicable

14.4 Packing group

Packing Group: Not applicable

14.5 Environmental hazards

Not classified

14.6 Special precautions for user

No special precautions are required for this product

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

14.8 Road/Rail (ADR/RID)

Proper Shipping Name:	Not applicable
ADR UN No.:	Not applicable
ADR Hazard Class:	Not applicable
ADR Packing Group:	Not applicable
Tunnel Restriction Code:	Not applicable

14.9 Sea (IMDG)

Proper Shipping Name:	Not applicable
IMDG UN No.:	Not applicable
IMDG Hazard Class:	Not applicable
IMDG Packing Group.:	Not applicable

14.10 Air (ICAO/IATA)

Proper Shipping Name:	Not applicable
ICAO UN No.:	Not applicable
ICAO Hazard Class:	Not applicable
ICAO Packing Group:	Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SECTION 15: Regulatory information (....)

This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 (as amended by Regulation (EU) 2020/878) and UK REACH

The GB Classification, Labelling and Packaging Regulation (GB CLP) applies in Great Britain

Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe

Restrictions on use according to Annex XVII to REACH Regulation: Not applicable

Not hazardous according to current EU Directive 2012/18/EU (the Seveso III Directive)

15.2 Chemical safety assessment

Not relevant

SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall only be used as a guide. The company will not be held liable for any damage resulting from handling or from contact with this product.

Sources of data: Information from published literature and supplier safety data sheets

Revision No. 2.0.0. Revised April 2025.
Changes made: Updated data in all sections. Revised to conform to latest version of REACH Annex II

Training advice

Workers must be informed of the presence of hazardous ingredients and trained in the proper use and handling of this product as required under applicable regulations

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

None assigned

Acronyms

ATE: Acute Toxicity Estimate

BOELV: Binding Occupational Exposure Limit Value

CAS: Chemical Abstracts Service

DNEL: Derived No-Effect Level

EC: European Community

EC_{50}: Effective Concentration, 50%

GHS: Globally Harmonised System

IARC: International Agency for Research on Cancer

IOELV: Indicative Occupational Exposure Limit Value

LC_{50}: Lethal Concentration, 50%

LD_{50}: Lethal Dose, 50%

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative and Toxic

SECTION 16: Other information (....)

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

SCL: Specific Concentration Limit

STOT RE: Specific Target Organ Toxicity Repeated Exposure

STOT SE: Specific Target Organ Toxicity Single Exposure

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

WEL: Workplace Exposure Limit