SAFETY DATA SHEET

SWELLGEL STANDARD

Revision date 05/07/21

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Product name: **SWELLGEL STANDARD**

Type of Product: **Mixture**

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

Identified uses: Processing aid for industrial applications.

Uses advised against: None.

1.3 Details of the supplier of the safety data sheet:

Company: Ingenious Products Ltd
Grove Farm
Occold
Suffolk
IP23 7PH

Tel: 0845 073 9430

Email: hello@swellgel.co.uk

1.4 Emergency Telephone numbers:

Work hours: 0845 073 9430 (9.30am – 4.00pm, Monday to Friday)

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272//2008:

Not classified.

2.2 Label Elements

Classification according to Regulation (EC) 1272//2008:

Hazard Pictogram(s): None

Signal word: None

Hazard statement(s): None

Precautionary Statement(s): None

Additional Elements: None

2. Hazards Identification

2.3 Other Hazards

The product swells in water. The product when wet renders surfaces extremely slippery.

PBT and vPvB assessment:
Not PBT or vPvB according to the criteria of Annex XIII of REACH.

3. Composition/Information on Ingredients

3.1 Substances

Not applicable. This product is a mixture.

3.2 Mixtures

This product is a mixture.

Hazardous components

Contains no reportable hazardous substances.

4. First Aid Measures

4.1 Description of first aid measures

Inhalation:	Move to fresh air. No hazards which require special fist aid measures.
Skin Contact:	Wash of with soap and plenty of water. Get medical attention if irritation develops and persists.
Eye Contact:	Rinse immediately with plenty of water, also under the eye lids, for at least 15 minutes. In case of persistent eye irritation consult a physician.
Ingestion:	Rinse mouth with water. DO NOT induce vomiting. Get medical advise.

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed

None

Other information

The product swells in water

5. Fire-fighting Measures

5.1 Extinguishing media

Suitable extinguishing media:

Water. Water spray. Foam. Carbon dioxide (CO_2). Dry powder.
Warning! The product when wet renders surfaces extremely slippery.

Unsuitable extinguishing media:

None

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products:

Thermal decomposition may produce: nitrogen oxides (NOx), carbon oxides (COx).
Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

5.3 Advise for fire-fighters

Protective measures:

In the event of fire, wear self-contained breathing apparatus.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions:

The product swells in water. The product when wet renders surfaces extremely slippery.

Protective equipment:

Wear adequate personal protective equipment (see section 8 Exposure Controls/Personal Protection).

Emergency Procedures:

Keep people away from/leak. Prevent further leakage or spillage if safe to do so.

6.2 Environmental precautions

As with all chemical products, do not flush into surface water.

6.3 Methods and materials for containment and cleaning up

Small spills:	DO NOT FLUSH WITH WATER. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.
Large spills:	DO NOT FLUSH WITH WATER. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.
Residues:	AFTER CLEANING, flush away traces with water.

6. Accidental Release Measures (cont)

6.4 Reference to other sections

SECTION 7: Handling and storage; SECTION 8: Exposure controls/personal protection; SECTION 9: Physical and chemical properties; SECTION 13: Disposal considerations;

7. Handling and Storage

7.1 Precautions for safe handling

No special precautions required. The product swells in water. The product when wet renders surfaces extremely slippery.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry place. Keep container closed when not in use. Incompatible with strong acids and oxidising agents.

7.3 Specific end user(s)

No information available

8. Exposure Controls/Personal Protection

8.1 Control parameters

National occupational exposure limits:

None known

Derived No. and Minimum Effects Levels (DNELs/DMELs):

None known

Predicted no-effect concentrations (PNEC):

None known

8.2 Exposure controls

Appropriate engineering controls:

Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

Individual protection measures, such as personal protective equipment

a. Eye/face protection:	Safety glasses with side shields
b. Skin Protection	i) Hand protection: PVC or other plastic material gloves. ii) Other: Work clothes protecting arms, legs and body.
c. Respiratory Protection:	No personal respiratory protective equipment normally required. Dust safety masks recommended where working powder concentration is more than 10mg/m^3.
d. Additional advise:	Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls:

Do not allow uncontrolled discharge of product into the environment. Do not flush into surface water.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a. Appearance:	Granular solid, white.
b. Odour:	None.
c. Odour Threshold:	Not applicable.
d. pH:	5 - 8 @ 5 g/L
e. Melting point/freezing point:	>150°C
f. Initial boiling point and boiling range:	Not applicable
g. Flash point:	Not applicable
h. Evaporation rate:	Not applicable
i. Flammability (solid, gas):	No data available
j. Upper/lower flammability or explosive limits:	Not expected to create explosive atmospheres.
k. Vapour pressure:	Not applicable
l. Vapour density:	Not applicable
m. Relative density:	0.6 - 0.9
n. Solubility(ies):	Insoluble in water
o. Partition coefficient:	-2
p. Autoignition temperature	Does not self ignite (based on the chemical structure).
q. Decomposition temperature:	>150°C
r. Viscosity:	Not applicable
s. Explosive properties:	Not expected to be explosive based on the chemical structure.
t. Oxidising properties:	Not expected to be oxidising based on the chemical structure.

9.2 Other information

None

10. Stability and Reactivity

10.1 Reactivity

None known

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Oxidising agents may cause exothermic reactions

10. Stability and Reactivity (cont.)

10.4 Conditions to avoid

None known

10.5 Incompatible materials

Incompatible with strong acids and oxidising agents.

10.6 Hazardous decomposition products

Thermal decomposition may produce: nitrogen oxides (NOx), carbon oxides (COx), hydrogen cyanide (hydrocyanic acid).

11. Toxicological Information

11.1 Information on toxicological effects

Information on the product as supplied:

Acute oral toxicity:	LD50/oral/rat> 5000mg/kg
Acute dermal toxicity:	LD50/dermal/rat> 5000mg/kg
Acute inhalation toxicity:	The product is not expected to be toxic by inhalation
Skin corrosion/irritation:	Not irritating
Serious eye damage/eye irritation:	Not irritating
Respiratory/skin sensitisation:	Not sensitising
Mutagenicity:	Not mutagenic
Carcinogenicity:	Not carcinogenic
Reproductive toxicity:	Not toxic for reproduction
STOT - Single exposure:	No known effects
STOT - Repeated exposure:	No known effect
Aspiration hazard:	No hazards resulting from the material as supplied

12. Ecological Information

12.1 Toxicity

Information on the product as supplied:

Acute toxicity to fish:	LD50/Danio rerio/96 hours > 100mg/L (OECD203) LC50/Oncorhynchus mykiss/96 hours > 100mg/L. (OECD 203)
Acute Toxicity to invertebrates:	EC50/Daphnia magna/48 hours > 100mg/L (OECD 202)
Acute toxicity to algae:	IC50/Scenedesmus subspicatus/72 hours > 100mg/L (OECD 201)

12. Ecological Information (cont.)

12.1 Toxicity (cont.)

Chronic toxicity to fish:	No data available
Chronic toxicity to invertebrates:	No data available
Toxicity to microorganisms:	No data available
Effects on terrestrial organisms:	No known effects
Sediment toxicity:	No data available

12.2 Persistence and degradability

Information on the product as supplied:

Degradation:	Not readily biodegradable
Hydrolysis:	Does not hydrolyse
Photolysis:	No data available

12.3 Bioaccumulative potential

Information on the product as supplied:

Not bioaccumulating

Partition co-efficient (Log Pow):	-2
Bioconcentration factor (BCF):	No data available

12.4 Mobility in soil

Information on the product as supplied:

None

12.5 Results of PBT and vPvB assessment

PBT assessment

Not PBT according to the criteria of Annex XIII of REACH

vPvB assessment

Not vPvB according to the criteria of Annex XIII of REACH

12.6 Other adverse effects

None known

13. Disposal Considerations

13.1 Waste treatment methods

Waste from residue/unused products:

Dispose in accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging:

I recycling is not practicable, dispose of in compliance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations. In accordance with local regulations.

14. Transport Information

Land transport (ADR/RID)

Not classified

Sea transport (IMDG)

Not classified

Air transport (IATA)

Not classified

15. Regulatory Information

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

All components of this product have been registered or pre-registered with the European Chemicals Agency or are exempt from registration.

15.2 Chemical safety assessment

A Chemical Safety Assessment for this product has been carried out by the person responsible for producing Safety Data Sheet. All relevant information used to conduct this assessment are included in this Safety Data Sheet as well as any resulting Risk Reduction Measures.

16. Other Information

This data sheet contains changes from previous version in section(s):

15. Regulatory information, 16. Other information

Key or legend to abbreviation and acronyms used in the safety data sheet:

Acronyms

PBT = persistent, bioaccumulative and toxic

STOT = Specific target organ toxicity

vPvB = very persistent and very bioaccumulative

16. Other Information (cont.)

This SDS was prepared in accordance with the following:

Regulation (EC) N°1907/2006, as amended

Regulation (EC) N°1272/2008, as amended

Version: 18.01.a

STAC002

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Annex(es)

This product is not hazardous as supplied and/or does not contain hazardous components:

- which require REACH registration; or,
- which demonstrate relevant effects which would require a chemical safety assessment; or,
- which are present at concentration above their cut-off value.

Therefore, according to Regulation (EC) N° 1907/2006, Article 31, paragraph 7, an Exposure Scenario is not required as an annex to the Safety Data Sheet.