



**JOHN WINTER & CO LTD**  
**SC NO 1**  
**SAFETY DATA SHEET (SDS)**



**PRODUCT NAME:** SC NO 1

Date SDS prepared 12.10.11

Date SDS revised

This SDS supercedes All previous dates

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## 1. PRODUCT AND COMPANY IDENTIFICATION

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**Trade Name:** SC#1

**Intended Use:** Foundry Binder

**Formulator:** John Winter & Co Ltd  
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Halifax  
West Yorkshire  
HX2 7DP

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**Email Address of SDS Complier:** [carol@johnwinter.co.uk](mailto:carol@johnwinter.co.uk)

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## 2. COMPOSITION / INFORMATION ON THE COMPONENTS

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### Description of Preparation

Yellow powder

Non hazardous Polysaccharides

The component substances in this preparation are listed in Annex I and II of EU 987/2008 and in EU 1907/2006 Annex IV and V and thus are exempt from registration under REACH

### Components in Preparation

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## 3. HAZARD IDENTIFICATION

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### Classification of Product Supplied

No Significant Hazard.

### Main Hazards:

#### Health Effects – Eyes

No problems expected with normal use – use of safety glasses to prevent entry into eyes recommended.

SC#1 in the eyes will cause physical irritation

#### Health Effects – Skin

No problems expected with normal use – normal standard of hygiene/protective equipment required.

Prolonged contact should be avoided. (Constant direct skin contact is to be avoided).

Appropriate PPE is recommended.

#### Health Effects – Ingestion

No problems expected with normal use – normal standard of hygiene/protective equipment required.

May cause some passing discomfort and poses no hazard.

Normal standards of industrial hygiene should be observed. To prevent ingestion personnel should be instructed to wash before consuming food. Consumption of food should be prohibited in areas where the



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material is stored or handled.

**Health Effects – Inhalation**

Dust is of nuisance value only – In event of dust formation, utilisation of dust mask is recommended.

**Environmental (e.g. potential hazard to other life forms):**

No known hazards.

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#### **4. FIRST AID MEASURES**

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**Immediate Medical Attention Required? No.**

**Professional Assistance from Physician Required? No.**

**Special Treatment Required in Workplace (if any): None.**

**First Aid – Eyes**

Irrigate the eye; remove SC#1 deposits.

If discomfort symptoms persist – seek medical attention.

**First Aid – Skin**

Not applicable.

**First Aid – Ingestion**

Not applicable.

**First Aid – Inhalation**

Remove person from source of exposure

**Advice to Physicians**

Not applicable.

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#### **5. FIRE FIGHTING MEASURES**

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**Extinguishing Media**

Water spray is suitable.

**Unsuitable Extinguishing Media**

Not applicable.

**Special Hazards of Product**

In fire, it may decompose to release carbon dioxide, water & carbon monoxide (incomplete combustion) In **extreme** circumstances combustion is possible. See section 10 Stability.

**Protective Equipment for Fire-fighting**

Wear self contained breathing apparatus in fire conditions.

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#### **6. ACCIDENTAL RELEASE MEASURES**

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**Personal Precautions (Refer to Section 8: Exposure Controls/Personal Protection)**

Wear appropriate clothing to protect against skin contact, eye contact and respiratory contact.

**Environmental Precautions (Refer to Section 13: Disposal)**

No known hazards.

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#### **6. ACCIDENTAL RELEASE MEASURES continued**

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**Spillages (Refer to Section 13: Disposal)**

**Small Spillages:**

Use a dry cleaning method e.g. vacuum cleaner or alternatively mop up spillages & collect in suitable containers. Equipment used in dusty conditions should have a suitable electrical protection rating



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**Large Spillages:**

For large spillages, vacuum cleaning systems is essential, or alternatively use a vacuum truck to collect and then dispose of material.

Equipment used in dusty conditions should have a suitable electrical protection rating

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## 7. HANDLING AND STORAGE

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**Handling**

Avoid contact with the eyes and inhalation. Avoid prolonged contact with skin.

**Storage**

Should be stored in cool, well ventilated, dry conditions.

**Bulk Storage:** Bulk storage vessels are recommended to be fitted with dust control equipment & explosion protection devices

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Occupational & Engineering Exposure Controls Limits and Source**

In most cases the key to the restriction of exposure is the control of dust; suitable precautions are set out in HSE guidance Note EH.44 - Dust - General Principles of Protection.

Normal standards of industrial hygiene should be observed, to prevent ingestion personnel should be instructed to wash before consuming food, consumption of food should be prohibited in areas where the material is stored or handled

Good standard of ventilation and housekeeping is recommended.

**Respiratory Protection**

Wear a suitable dust mask when handling the material in a powder form (nuisance dust only).

**Hand Protection (including types of gloves, etc.)**

Barrier cream or protective gloves recommended as a precaution.

**Eye Protection**

Goggles or similar eye protection will prevent contact with the eyes.

**Body/Skin Protection**

Overalls recommended as a precaution.

**Protection during Application**

Goggles, Dust Mask. .

**Health Surveillance:**

None known, symptomatic treatment.

**Environmental:**

No significant hazard.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State (Appearance)	Powder
Colour	Yellow
Solubility in Water (kg/m <sup>3</sup> ) and Fat (kg/m <sup>3</sup> )	Soluble
Relative Density (kg/m <sup>3</sup> )	0.60 – 0.70 kg
Odour	Odourless.
Ph	4-7
Boiling Point Range	Not known
Flashpoint (°C)	Ignition temperature:>450°C Auto ignition temperature:190°C - above this temperature SC#1 will self-heat
Flammability (gas/solid)	Not known
Combustion Properties	None with normal use and good ventilation. See Section 10

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## 10. STABILITY AND REACTIVITY

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### Stability

Stable under normal conditions.

### Conditions to Avoid

In extreme conditions SC#1 /air mixtures may form combustive mixtures

Lower combustive limit: 30g/m<sup>3</sup> SC#1 is a class St1 dust at normal moisture level

Minimum Ignition Energy (MIE): 100 - 300 mJ at normal moisture level

P max: 9.5 bar Kst: 198 Bar.m/s

Ignition temperature: >450°C

Auto ignition temperature: 190°C - above this temperature SC#1 will self-heat.

### Materials to Avoid

Excessive dust formation, excessive heat and combinations of sources of ignition.

### Hazardous Decomposition Products

In fire, it may decompose to release carbon dioxide, water & carbon monoxide (incomplete combustion).

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## 11. TOXICOLOGICAL INFORMATION

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**Acute Toxicity: None.**

**Irritancy – Eyes:** May cause irritation to the eyes.

**Irritancy – Skin:** May cause irritation to the skin.

**Inhalation:** In a powdered form it is classed as a nuisance dust with LTOEL of 10 mg/m<sup>3</sup> total inhalable dust

**Ingestion** If ingested, product will not present a health risk for humans or animals & may produce at worst no more than minor passing discomfort

### Other life forms

No effects observed.



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## 12. ECOLOGICAL INFORMATION

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### Ecotoxicity

SC#1 does not pose and ecological risk. No data on aquatic or vegetative toxicity.

### Mobility

No known risk.

### Persistence and Degradability

In fire, it may decompose to release carbon dioxide, water & carbon monoxide (incomplete combustion).  
Not known to be persistent.

### Bioaccumulative Potential

No known risk.

### Other Adverse Effects

Not known.

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## 13. DISPOSAL

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### Waste Classification:

You are reminded that all waste materials should be disposed of in accordance with the Environmental Protection Act – 1990

### Product Disposal

Dispose of in accordance with all applicable local and national regulations.

### Container Disposal

Paper bags, bulk bags, and shrink wrappings can be disposed of by incineration under approved conditions or as land fill at approved sites.

### Likely Residue of Product (if any)

None known.

### Special Handling of any residues / waste product

None known.

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## 14. TRANSPORT INFORMATION

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### Special carriage precautions in carriage (on-site or externally)

None.

**Packaging:** 25 kg

**Classification:** Not classified

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## 15. REGULATORY INFORMATION

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### Supply Label Information

None required.

### Labelling Information

None required.

### Risk Phrases

NC- Not classified.

### Safety Phrases

NC – Not classified.

### Chemical Safety Assessment

The CSA has not been carried out on the substances in this preparation.

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## 16. OTHER INFORMATION

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### Sources of Key Data used to compile the SDS

Original MSDS Polysaccharide, 18 Aug 2006 as revised.  
Sax's Dangerous properties of Industrial Materials - 8th Edition, Van Nostrand Reinhold, 1995  
Croners-i Hazardous Substances Module

### Footnote

The data contained in this Safety Data Sheet has been supplied as required by the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (if applicable), or, from 1 June 2007 and the EC REACH Regulation 1907/2006 for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

### LIABILITY

Such information above is to the best of John Winter & Co Ltd knowledge and belief, accurate and reliable as of the indicated date. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use.

### THIRD PARTY MATERIALS

Insofar as materials not manufactured or supplied by John Winter & Co Ltd are used in conjunction with, or instead of JW materials, it is the responsibility of the customer to obtain from the manufacturer or supplier, all technical data and other relevant information relating to these materials. No liability can be accepted in respect of the use of JW materials in conjunction with other materials.

Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information

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## 17. NATIONAL LEGISLATION

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### UK Legislation

#### Health and Safety at Work Act 1974

The Management of Health and Safety at Work Regulations 1992  
Control of Substances Hazardous to Health Regulations 2002  
Guidance Notes EH40 – Occupational Exposure Limits  
Personal Protection at Work Regulations 2002

#### The Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regulations 2008

EC REACH Regulation 1907/2006 December 2006, as amended.

*Note: This is not an exhaustive list, and users should satisfy themselves that they comply with all relevant national regulations.*