



Material Safety Data Sheet –

In accordance with 91/155/EEC

1. Identification of substances

- 1.1 Trade Name: SnowBase
- 1.2 Supplier: Snow Business International Ltd, The Snow Mill, Ebley, Stroud,
Glos GL5 4TR, United Kingdom.
- 1.3 Contact: Symon Doliczny
- 1.4 Telephone: +44 (0) 1453 840088
- 1.5 Applications Artificial snow for use out of doors on building detail, roofs, plants etc.

2: Hazards identification

- 2.1. Classification of the substance or mixture not relevant
- 2.2. Label elements
- Classification according to Regulation (EC) No.1272/2008 [CLP] not relevant
- Classification according to Directive 67/548/EEC or 1999/45/EC not relevant
- 2.3. Other hazards
- This material is combustible, but will not ignite readily.
- The substance does not require registration according to Regulation (EC) No 1207/2006 [REACH].

3: Composition / information on ingredients

3.1. Substances

Substance related information

Cellulose

CAS-No.: 9004-34-6

EC-No.: 232-674-9

Index-No.: not relevant

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3.2. Mixtures

Composition/information on ingredients

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):	Classification: 67/548/EEC:
not relevant	not relevant	not relevant	not relevant	not relevant	not relevant	not relevant	not relevant

Substance with a common (EC) occupational exposure limit value

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):	Classification: 67/548/EEC:
not relevant	not relevant	not relevant	not relevant	not relevant	not relevant	not relevant	not relevant

(Full text of R-, H- and EUH-phrases: see section 16.)

3.3 Additional information

The substance does not require registration according to REACH.

4: First Aid Measures

4.1. Description of first aid measures

General information:	When in doubt or if symptoms are observed, get medical advice.
Following inhalation:	Provide fresh air.
Following skin contact:	not relevant
After eye contact:	Rinse immediately carefully and thoroughly with eye-bath or water. Seek medical attention if problems persist.
After ingestion:	If major quantities of dust are swallowed or inhaled, immediately drink: Water.

Self-protection of the first aider: not relevant

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4.2. Most important symptoms and effects, both acute and delayed

Symptoms: No symptoms known up to now.

Nature of Hazard: not relevant

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor: Treat symptomatically.

Special treatment: Treat symptomatically.

5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water. Carbon dioxide (CO₂). Foam. Dry extinguishing powder

Unsuitable extinguishing media: High power water jet.

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters

General information Danger of dust explosion.

Special protective equipment

for firefighters: In case of fire: Wear self-contained breathing apparatus.

Additional information Fire class A (Fires of solids, mainly organic nature, which normally burn down under glow forming).

6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Avoid generation of dust.

For emergency responders:

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Avoid generation of dust.

See protective measures under point 7 and 8.

6.2. Environmental precautions

No special environmental protection measures are necessary.

6.3. Methods and material for containment and cleaning up

Take up mechanically.

Avoid generation of dust.

Do not use a dry brush as dust clouds or static can be created.

6.4. Reference to other sections

Disposal: see section 13.

Personal protection equipment: see section 8

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7: **Handling and storage**

7.1 **Precautions for safe handling**

Advices on safe handling

In case of open handling, use devices with built-in suction where possible.

It is recommended to organize all working processes in order to exclude the following:

Inhalation of dust/particles

Technical measures

Measures to prevent aerosol and dust accumulation:

Provide for sufficient ventilation and punctiform suction at critical points. Dust should be vacuumed up immediately at the place it occurs.

Precautions against fire and explosion Product is: Combustible.

Explosive dust-air mixtures may form.

Keep away from hot surfaces.

Before opening the container prepare fire extinguisher.

Additional information

Recommendations for handling:

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

240 Ground/bond container and receiving equipment.

241 Use explosion-proof electrical/ventilating/lighting/.?/ Equipment.

280 Wear protective gloves/protective clothing/eye protection/face protection.

7.2. **Conditions for safe storage, including any incompatibilities**

Technical measures and storage conditions not relevant

Packaging materials not relevant

Requirements for storage rooms and vessels not relevant

Hints on joint storage not relevant

Storage class: 11 Combustible solids

Further information on storage conditions

Protect against: moisture. Water.

Relative room humidity (%): not relevant

Storage temperature: not relevant

Storage stability: at least 5 years

Maximum period of storage (time): not relevant

7.3. **Specific end use(s)** not relevant

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8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit value

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:
Cellulose	9004-34-6	GESTIS	10 mg/m ³		OEL AU
Cellulose	9004-34-6	GESTIS	10 mg/m ³		OEL CA-Ontario
Cellulose	9004-34-6	GESTIS	10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol		OEL GB
Cellulose	9004-34-6	GESTIS	10 mg/m ³ Inhalable fraction 4 mg/m ³ respirable fraction		OEL IE
Cellulose	9004-34-6	GESTIS	10 mg/m ³		OEL NZ
Cellulose	9004-34-6	GESTIS	10 mg/m ³ total dust 5 mg/m ³ respirable aerosol		OEL US – NIOSH
Cellulose	9004-34-6	GESTIS	15 mg/m ³ total dust 5 mg/m ³ respirable dust		OEL US - OSHA

Substance with a common (EC) occupational exposure limit value

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Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:
not relevant	not relevant	not relevant	not relevant	not relevant	not relevant

DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL	Industry	Professional	consumer
not relevant	not relevant	not relevant	not relevant	not relevant	not relevant

PNEC Value

Substance:	CAS-No.:	PNEC	Worker, industry	Worker, professional	consumer
not relevant	not relevant	not relevant	not relevant	not relevant	not relevant

Risk management measures according to used control banding approach

not relevant

Additional information

not relevant

8.2. Exposure controls

8.3 Occupational exposure controls

Respiratory protection necessary at: Dust formation.

8.4 General protection and hygiene measures

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

8.5 Personal protection equipment

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

8.6 Respiratory protection

Suitable respiratory protective equipment: half-mask with filter according to EN 149.

Half-face mask or quarter face piece: maximum use concentration for substances with exposure limits:

P1 filter: up to a max. of 4 times the exposure limit.

P2 filter: up to a max. of 10 times the exposure limit.

P3 filter: up to a max. of 30 times the exposure limit.

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Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

If the concentration is exceeded, self-contained breathing apparatus must be used.

8.7 Hand protection

Hand protection: not required.

8.8 Eye/face protection

Dust protection goggles.

8.9 Body protection

Skin protection: not required.

8.10 Environmental exposure controls

Refer to chapter 7. No further action is necessary.

8.11 Consumer exposure controls

not relevant

8.12 Exposure Scenario

not relevant

9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Powder
 Colour: White
 Odour: Odourless
 Odour threshold: Not relevant

Safety relevant basis data

Parameter		unit	remark
Density:	approx. 1.5	g/cm ³	
Bulk density:	>35	kg/m ³	
pH:	5.0 – 7.5		
Melting point/freezing point:			not applicable
Initial boiling point and boiling range:			not applicable
Flash point:			not determined
Flammability (solid, gas):			not relevant

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Explosivity:

			Dust explosive
Lower explosion limit:	30	g/m ³	
Upper explosion limit:	11000	g/m ³	
Ignition temperature:			not determined
Decomposition temperature:	approx. 200	°C	
Oxidizing potential:			not oxidizing.
Vapour pressure:			not applicable
Vapour density:			not applicable
Evaporation rate:			not applicable
Water solubility:			insoluble
Fat solubility:			insoluble
Soluble in:			not relevant
Partition coefficient n-octanol/water:			not applicable
Viscosity:			not applicable
Solvent separation test:			not applicable
Solvent content:			not relevant

9.2. Other information

Dust explosion category: St 1
 Minimum ignition energy in mJ: 30
 Minimum ignition temperature of a dust cloud in °C: 400
 Flammability and burning behaviour of dust layers: burning number (BZ) 5
 Minimum ignition temperature of a 5 mm dust layer (glowing temperature): >= 330 °C
 Maximum explosion pressure in bar: < 9.5
 KSt-value (bar x m/s): < 200
 The product has not been tested.
 The statement is derived from products of similar composition.

10: Stability and Reactivity

10.1. Reactivity not relevant

10.2. Chemical stability not relevant

10.3. Possibility of hazardous reactions

Decomposition takes place from temperatures above: approx. 200 °C

10.4. Conditions to avoid

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

10.5. Incompatible materials not relevant

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10.6. Hazardous decomposition products Carbon monoxide. Carbon dioxide.
Additional information not relevant

11 Toxicological information

11.1. Information on toxicological effects not relevant
Acute toxicity

Substance:	CAS- No.:	Toxicological information
not relevant	not relevant	not relevant

11.2 Specific symptoms in laboratory animals not relevant

11.3 Irritation and etching

Irritant effect on the skin Not an irritant.
 Irritant effect on the eye Not an irritant.
 Irritant effect on the respiratory tract Not an irritant.
 Caustic effect Not corrosive

11.4 Sensitization no danger of sensitization.

Repeated dose toxicity (subacute, subchronic, chronic) not relevant

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity not relevant

Germ cell mutagenicity not relevant

Reproductive toxicity not relevant

General remarks not relevant

Practical experience/human evidence not relevant

Other observations not relevant

Other information

Mechanical action of the product (e.g. unwanted adherence) may cause damages.

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12: Ecological information

12.1. Toxicity not relevant

Eco toxicity

Substance:	CAS-No.:	Eco toxicity
not relevant	not relevant	not relevant

12.2. Persistence and degradability not persistent.

12.3. Bio accumulative potential No indication of bio-accumulation potential.

12.4. Mobility in soil not relevant

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects not relevant

12.7 Further ecological information

According to the present state of knowledge negative ecological effects are not expected.

Further details Not relevant

13: Disposal Considerations

13.1. Waste treatment methods

Appropriate disposal/Product Waste disposal according to official state regulations.

Appropriate disposal / Package Completely emptied packing can be recycled.

List of proposed waste codes/waste designations in accordance with EWC

Waste code product: 03 03 99 - wastes not otherwise specified

Waste code packaging: 15 01 06 - mixed packaging

Remark

According to EWC, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

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14: Transport information

- 14.1. UN number** not relevant
14.2. UN proper shipping name not relevant
14.3. Transport hazard class(es) not relevant
14.4. Packing group not relevant
14.5. Environmental hazards not relevant

14.6. Special precautions for user
Land transport (ADR/RID)

Remark: Not a hazardous material with respect to these transportation regulations.

Sea transport (IMDG)

Remark: Not a hazardous material with respect to these transportation regulations.

Air transport (ICAO-TI / IATA-DGR)

Remark: Not a hazardous material with respect to these transportation regulations.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remark: not relevant

15: Regulatory information

Labeling

Hazardous component(s) for labelling not relevant

Special labelling of particular preparations not relevant

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

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline). not relevant

Regulation (EC) No 2037/2000 concerning materials, which cause damage to the ozone layer. not relevant

Regulation (EC) No. 648/2004 (Detergents regulation) not relevant

National regulations

Observe in addition any national regulations!

Restrictions of occupation not relevant

Storage class 11 Combustible solids.

Water hazard class (WGK) not a water pollutant (nwg)

Other regulations, restrictions and prohibition regulations not relevant

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

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16: Other information

Relevant R-, H- and EUH-phrases (Number and full text) not relevant

Training advice not relevant

Recommended restrictions of use not relevant

Further remarks

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge.

The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal.

The information cannot be transferred to other products.

In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Documentation of changes

Data changed from previous versions

Key literature references and sources for data

Data arise from reference works and literature.

GESTIS- substances data base

Directive 67/548/EEC

Directive 1999/45/EC

Regulation (EC) 1272/2008 (CLP)

Abbreviations and acronyms

EWC = European Waste Catalogue

Compilation date 13/03/2015

Approved Symon Doliczny

Reviewed

The statements in this bulletin were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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