

MATERIAL SAFETY DATA SHEET

Cellulose (Curran®)

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Section 1 : Identification of Chemical Product and Company Identification

1.1 Product Identifier

Trade Name: Curran®

Synonym: Cellulose, CV5000, CV3000, CV1000

Chemical Name: Cellulose

Chemical Formula: POLYMER

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

Uses of the substance/mixture Additive

1.3 Details of the supplier of the safety data sheet

Contact Information: CelluComp Limited
Dr David Hepworth
+441592870335
david.hepworth@cellucomp.com

1.4 Emergency telephone number

Section 2 : Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008

Classification (67/548/EEC. 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC

R-Phrase(s): None

2.2. Label elements

Labelling (Regulation (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

Precautionary Statements

2.3. Other Hazards

No information available

Section 3 : Composition and Information on Ingredients

3.1. Composition

This material is a natural cellulosic polymer with two (low dose) biocide additives: a sterilisation biocide (Bioban DB-20*) with a biodegradation of 85% over 28days; a preservative biocide (Rocima 551*).

Component	CAS-No	EC-No	Weight %	CLP Classification	DSD Classification
Natural Cellulosic Polymer			1-5% or 18-20%		
Antimicrobial Agents:			<0.4%		

* Indicates a Trademark

Section 4 : First Aid Measures

4.1. Description of first aid measures

General:	In all cases where symptoms persist seek medical advice.
Eye Contact:	If wearing contact lenses they must be removed. Immediately flush eyes with plenty of water for at least 30 minutes. Get medical attention if irritation occurs.
Skin Contact:	Wash with soap and water for 15 minutes. Get medical attention if irritation develops.
Inhalation:	Move person to fresh air. If person so not breathing, call an emergency responder or ambulance, then give artificial respiration.
Ingestion:	Do not induce vomiting unless directed to do so by medical personnel. Have person sip a glass of water if able to swallow. Never give anything by mouth to an unconscious person. Loosen tight

clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Section 5 : Fire and Explosion Data

5.1 Extinguishing media

Fire Fighting Media and Instructions: SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam.

5.2 Special hazards arising from product

Special Remarks on Fire Hazards: Damp cellulose can be a significant fire hazard since it may undergo spontaneous combustion. Fire and explosions may occur from reactions involving pentafluoride, acetic acid and cellulose. Contact between cellulose and sodium nitrite at elevated temperatures results in vigorous burning from decomposition reaction.

Special Remarks on Explosion Hazards: Fire and explosions may occur from reactions involving pentafluoride, acetic acid and cellulose. Contact between cotton and fluorine may result in violent explosion. Excess dust generation may create explosion hazard.

Flammability of the Product: May be combustible at high temperature (>210°C).

5.3 Advice for Firefighters

Special protective equipment for firefighters: Wear self-contained breathing apparatus if necessary

Further information: Standard procedure for chemical fires.
Use extinguishing measures appropriate to local circumstances and the surrounding environment

Section 6 : Accidental Release Measures

6.1. Precautions, protective equipment and emergency procedures

Use personal protective equipment; chemical resistant gloves; chemical goggles, avoid dust formation, avoid contact with eyes.

6.2. Environmental precautions

6.3. Methods and materials for containment and cleaning up

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container and dispose of according to local and regional authority requirements.

Section 7 : Handling and Storage**7.1. Precautions for safe handling**

Advise on safe handling

For personal protection see section 8
Smoking, eating and drinking should be prohibited in the application area.
Do not get in eyes or skin. Do not swallow.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Keep in closed container, which can be stored in a well-ventilated area at room temperature, however for prolonged life store between 1-7°C. Do not store above 25°C (77°F).

Section 8 : Exposure Controls / Personal Protection**8.1 Control Parameters**

Exposure limits

8.2. Exposure Controls

Personal Protection:

Chemical Safety glasses. Lab coat. Gloves (impervious). General industrial hygiene practices

Section 9 : Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

Physical state and appearance:

Liquid or Solid form. (A polymer consisting of linked glucose units (cellobiose) in unbranched linear chains. It is the main constituent of plant fibre.)

Odour:

Odourless.

Taste:

Tasteless.

Colour:

Beige*

pH (1% soln/water):

6 - 8.

Solubility:

Insoluble in cold water, hot water. Insoluble in organic solvents. It will swell in dilute alkaline solutions such as sodium hydroxide and will dissolve in caustic alkali with carbon disulfide. It is soluble in ammoniacal copper hydroxide solution (Schweitzer's reagent) and concentrated zinc chloride solution.

Toxic Effects on Humans: Slightly hazardous in case of ingestion, or inhalation.
Non-irritant for skin.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: It is not known to cause skin irritation. Ingestion: Ingestion of large amounts of cellulose may cause digestive tract irritation. Eyes: Dust may cause mechanical irritation. To the best of our knowledge, there are no known cases of adverse effects or disease in humans from exposure to cellulose. Health effects from cotton fibers, wood, flax, jute, and hemp are usually due to other substances. Purified cellulose is known to be essentially inert. Pure cellulose dust is not known to be irritating or toxic. Chronic Potential Health Effects: Chronic inhalation from cellulose-containing fibers can cause byssinosis. Allergies can develop to cellulose-containing fibers, but these are probably due to plant proteins or other components. In chronic feeding studies with purified cellulose in mice and rats, no significant adverse reactions were seen.

Section 12 : Ecological Information

12.1. Toxicity

The product has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

12.2. Persistence and degradability

Products of Biodegradation:

Short term degradation products are not likely. However, long term degradation products may arise

Toxicity of the Products of Biodegradation:

The product itself and its products of degradation are not toxic.

12.3. Bio accumulative potential

Bioaccumulation: No data available

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Section 13 : Disposal Considerations

13.1 Waste treatment methods

Waste Disposal:

Waste must be disposed of in accordance with the requirements of environmental protection and waste disposal legislation and any other regional local authority requirements.

Hazardous Waste:

Within the present knowledge of the manufacturer, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Section 14 Transport Information

DOT Classification: Not a DOT controlled material (United States). No limitations, no markings necessary.

Section 15 : Other Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the product****EU Regulation (EC) no. 1907/2006 (REACH)****Annex XIV – list of substances subject to authorisation**

None of the components are listed

Substances of very high concern

None of the components are listed

Restrictions

Not applicable

Annex XVI – Not applicable

Other EU regulations:

VOC: Requirements met

REACH Regulation (EC) No 1907/2006

This product contains only components that have been either pre-registered, registered, are exempt from this registration or are regarded as registered according to Regulation (EC) No 1907/2006 (REACH). The Aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

Section 16 : Other Information

References: Not available.

Other Special Considerations: Not available.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall CelluComp Limited be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if CelluComp Limited has been advised of the possibility of such damages.