



SAFETY DATA SHEET

NAME OF PRODUCT : ECOCEL

According to Regulation (EC) 1907/2006

MSDS DATE: 04 June 2014 Version 1.0

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier

PRODUCT NAME: Ecocel

CATALOGUE Names: Ecocel

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

PRODUCT USE: Wood based cellulose fiber treated with inorganic flame retardants of Magnesium Hydroxide and Boric Acid for application in domestic and commercial building insulation

1.3 Details of the Supplier of the Safety Data Sheet

MANUFACTURER: Cellulose Insulation Ltd T/A Ecocel
ADDRESS: Unit K8 Marina Commercial Park
Centre Park Road, Cork, Ireland

Phone :++353 (0)21 4324567

1.4 Emergency Telephone Number

EMERGENCY PHONE 24 hour:++353 (0)21 4324567 and Mobile
++353 (0) 87 2584487
INFORMATION : info@ecocel.ie

Or Contact the company representative in your country

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification of Ecocel in accordance with Regulation (EC) 1272/2008

Not classified as a hazardous material

Classification in accordance with EC 67/548/EEC and 1999/45/EC

Not classified as a hazardous material

2.2 Label elements

Labeling Requirements in accordance with Regulation (EC)
1272/2008

Hazard Pictograms: **None required**

Signal word : **None required**

Hazard statements:

H302, H312, H332 Harmful if swallowed , in contact with skin or if inhaled

Response

P302 and P352 IF ON SKIN: Wash with plenty of soap and water

P304 and P340 IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position for breathing

Storage

Not classified. Non-combustible. Store in secure storage

Risk Phrases

R20/21/22: Harmful by inhalation, in contact with skin and by ingestion

S-Phrases

S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

S53: Avoid exposure - obtain special instructions before use

2.3 Other Hazards

Not a PBT or vPvP material

Precautionary Statements

P201 Obtain special instruction before use

P202 Do not handle until all safety precautions have been read and understood

P281 Use personal protective clothing as required

P308 + P313 If exposed or concerned: Get medical advice / attention

P405 Store locked up Keep away from heat/sparks/open flames/hot surfaces – No smoking



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This product contains Boric Acid at less than 5.5% w/w. Boric Acid is a white odourless, powdered substance that is not flammable, combustible, or explosive and has low acute oral and dermal toxicity.

Potential Health Effects

Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not usually a concern as Boric Acid is poorly absorbed through intact skin

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

IUPAC Name : Not classified

CAS Number : Not classified

EC Number : Not classified

Index No. In CLP Annex VI: Not classified

Composition : Composite insulation of cellulose paper derived containing combustion retardant materials

Molecular formula: Not applicable

REACH Registration: Exempt from classification

Hazardous Components Regulation (EC) No. 1272/2008

Chemical Name	Concentration	CAS Number	Classification to 67/548/EEC and 1272/2008
Cellulose Pulp	>80%	9004-34-6	Not classified
Boric Acid	>0.1% and <5.5%	10043-35-3	R60, R61
Magnesium Hydroxide	6%	1309-42-8	None Listed
Calcium Sulphate (Plaster of Paris)	2% to 4%	7778-18-9	Not classified
Calcium Carbonate	1% to 2%	471-34-1	Not classified

No chemical hazards were determined from a review of available literature.

Boric acid is included as a substance of very high concern (SVHC) in European Chemicals Agency's (ECHA) candidate list. This product contains Boric acid (CAS# 10043-35-3) at $\geq 0.1\%$ concentration below the hazard concentration limit ($<5.5\%$) listed in 1272/2008/EC and as such classification as a hazardous material is not required.

3.2 Mixture

The material is treated as a Chemical Mixture. For constituents please see section 3.1

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General advice: First Aid responders are to ensure they are equipped with the situation and ensure they have the proper PPE

EYES:

Immediately flush with water ensuring that if the person is wearing contact lenses they are removed if possible without stopping the flushing process continue for at least 15mins contact a medical specialist and consult to find next level of action.

SKIN:

If the product comes into contact with the skin through direct contact or absorption through work clothes the following actions should be taken: remove all contaminated clothing, wash/ shower with plenty of water and soap, if person is still feeling any form of irritation of the skin take the person directly for medical attention with this SDS form. Persons detailed for removing clothing should have the necessary PPE so as to prevent any further exposure. Clothes should not be reused until correctly laundered.

INGESTION:

If swallowed, encourage person to wash/rinse out mouth. Whilst they are doing this call the National Poison Centre of Ireland for information on procedure to be followed. In Ireland the No is (01)8092166. Do not induce vomiting. If the person is unconscious and breathing place in the recovery position. If the person is not breathing carry out CPR but do not use mouth to mouth due to the victim ingested the substance. Instead carry out CPR with the aid of a bag valve mask or a pocket mask equipped with a one-way valve. If neither are available just use compressions and transfer to medical facilities immediately with MSDS /SDS sheet.

INHALATION:

If inhaled remove the person from the immediate vicinity to an area with adequate ventilation and transfer to medical facilities immediately with MSDS /SDS sheet.



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4.2 Most important symptoms effects, both acute and delayed

Irritant effects.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 4 NOTES: Ensure that the person has a copy of the most up to date SDS sheet for the Doctor or Medical facility

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Noncombustible. Use water or foam extinguisher for damping in case of fire

5.2 Special hazards arising from the substance or mixture

Emits toxic fumes of carbon monoxide and carbon dioxide when heated to decomposition above 450 degrees Celsius.

5.3 Advice for fire fighters

Gas-tight chemical protective clothing (BS EN 469) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137). Non-essential personnel should move at least 250 m away from the incident. Normal fire fighting procedures may be used.

HEALTH: FLAMMABILITY: REACTIVITY:

The substance is stable and noncombustible

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

ACCIDENTAL RELEASE MEASURES

All personal involved in the clean up should have full protective equipment that is suitable for the size of spill. Material may be swept up and collected or disposal.

Small Minor Spills:

Material may be swept up and collected or disposal.

Large Major Spills:

All personal involved in the clean up should have full protective equipment that is suitable for the size of spill. Material may be swept up and collected or disposal.

6.2 environmental precautions

Do not let any of the product enter drains or sewers or disperse in the environment

6.3 Methods and materials for containment and cleanup.

Sweep up and bag for disposal

6.4 reference to other sections

All surplus product and waste is to be collected placed in suitable containers

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

HANDLING: Eating, drinking and smoking are to be prohibited where this substance is stored, handled or processed. Persons handling the material should wash their face and hands before eating, drinking or smoking. Do not get on clothing, skin or into eyes.

7.2 Storage

Material should be stored in secure storage. Not reactive.

7.3 Specific End Use(s)

Domestic and commercial insulation.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

ENGINEERING CONTROLS:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Refer to section 7 for relevant handling & storage information.

8.2 Exposure Controls

Engineering controls need to ensure the limits below, set out in the 2011 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No 619 of 2001), are met.

Substance	EINECS No.	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		Notes
			ppm	Mg/m3	ppm	Mg/m3	
Cellulose Pulp Total Inhalable dust Respirable dust	232-674-9	9004-34-6		10 4		20	
Boric Acid	233-139-2	10043-35-3	2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic); 6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic) ACGIH (American Conference of Governmental Industrial Hygienists. Not listed SI 619 of 2001, Chemical Agents Regs Code of Practice				
Magnesium Hydroxide	215-279-6	1309-42-8	No value assigned				
Calcium Sulphate (Plaster of Paris)	231-900-3	7778-18-9		10			Gypsum
Calcium Carbonate Total Inhalable dust Respirable dust	215-279-6	1317-65-3		10 4			

* IOELV – Indicative Occupational Exposure Limit Values are health based limits set under the Chemical Agents Directive 98/24/EC

VENTILATION:

Use in a well-ventilated area or utilize personal protective equipment in enclosed spaces

RESPIRATORY PROTECTION:

An air-purifying respirator compliant to the workplace requirements and selected in accordance with IS EN 529 should be used if the area is not well ventilated. A P3 high efficiency air filter is recommended for poorly ventilated work areas.

EYE PROTECTION:

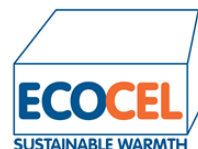
Safety eyewear / goggles should be worn if working with the material in enclosed spaces. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Provide eyewash & quick drench.

SKIN PROTECTION:

Avoid skin contact. Utilize suitable protective garments

WORK HYGIENIC PRACTICES:

Avoid contact and breathing dusts



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

APPEARANCE: White to grey

ODOUR: No significant odor

PHYSICAL STATE: Solid

9.2 Other Information

SECTION 9 NOTES:

Non-combustible cellulose based solid impregnated with flame retardant materials

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature and pressure).
Hazardous Polymerization: Will not occur.

10.3 Possibility of hazardous reactions

No hazardous reactions under standard application conditions

10.4 Conditions to Avoid:

Avoid uncontrolled exposure to high temperatures. Avoid generating dusts

10.5 Incompatible materials

Strong acids, oxidizing materials and alkalis

10.6 Hazardous decomposition products

In the event of fire see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

TOXICOLOGICAL INFORMATION:

Acute Toxicity

No acute toxicity.

Acute oral toxicity

No acute oral toxicity.

Serious eye damage / Irritation

Potentially irritating to the eyes.

Sensitization

No data.

Mutagenicity

No Mutagenic properties.

Carcinogenicity

Not listed as a carcinogen IARC.



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Reproduction

This product contains Boric acid (CAS# 10043-35-3) at $\geq 0.1\%$ concentration below the hazard concentration limit ($<5.5\%$) listed in 1272/2008/EC and as such classification as a hazardous material is not required. Boric Acid at concentrations above 5.5% is listed in the Harmonised Classification provided in the 1st ATP to CLP (Rag EC 790/2009) Reproductive Category 1Bⁿ H360FD: May damage fertility or the unborn child.

Specific target organ toxicity (STOT) – Single Exposure

No significant affects likely

Specific target organ toxicity (STOT) – Repeated Exposure

Boric acid has been investigated after sub chronic and chronic administration to rats, mice and dogs (NTP, 1987; study summaries in ECHA, 2008 and Weir and Fisher, 1972). Although not all of these investigations comply with current test guidelines or GLP principles, the investigations identify the haematological system and the testes as the main targets of toxicity of boric acid. These results are further supported by investigations with other borates (e.g. disodium tetraborate decahydrate).

Potential Health Effects

Inhalation- Harmful if inhaled. May cause respiratory tract irritation

Ingestion – Harmful if swallowed

Skin Harmful if absorbed through the skin. May cause skin irritation

Eyes –Causes eye burns

Signs and Symptoms of Exposure

Burning sensation, cough, wheezing, laryngitis, shortness of breath, skin disorders.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No toxicity at the concentrations of materials contained within the product.

12.2 Persistence and degradability

No persistence in the environment.

12.3 Bioaccumulative potential

The substance is biodegradable and hence not persistent.

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

This substance is not a PBT nor a vPvB.

12.6 Other adverse effects

None

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

WASTE DISPOSAL METHOD **Waste is potentially ignitable.**

Waste Disposal: Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable national, state or local laws. Do NOT dispose into any sewers, on the ground, or into any body of water. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Note that disposal regulations may also apply to empty containers and equipment reinstates.



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SECTION 14: TRANSPORT INFORMATION

	Land Transport	Air Transport	Sea Transport
14.1 UN number	Not designated as hazardous for transport	Not designated as hazardous for transport	Not designated as hazardous for transport
14.2 Proper shipping name			
14.3 Class			
14.4 Packing group			
14.5 Environmentally hazardous			
14.6 Special precautions for user			
14.7 Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code			

SECTION 15: REGULATORY INFORMATION

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

EUROPEAN UNION INFORMATION

No designated CAS No. For this material.

15.1. Chemical Safety Assessment

Classification as per the Regulations 67/548/EEC

Risk Phrases

R20/21/22: Harmful by inhalation, in contact with skin and by ingestion

Safety Phrases

S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

S53: Avoid exposure - obtain special instructions before use

H302, H312, H332 Harmful if swallowed , in contact with skin or if inhaled

CLASSIFICATION AS PER C.L.P Regs 1272/2008.

Not classified as a hazardous material

16: OTHER INFORMATION

Compilation information of safety data sheet

Chemical EcoCel Insulation SDS

CAS#:Not classified

File Name -----

Revision No 1

Date of revision 04 June 2014

Revision Due Date July 2015

DISCLAIMER: Information contained in this SDS sheet is believed to be accurate but no representation, or guarantee kind of any are made to its accuracy .This SDS sheet should be used as a guide only.