

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Medichill Cool Cubes Absorbent Pads
Intended Use:	Developed as Ice Replacement
Physical Description:	A polyester/polyethylene film laminate thermally bonded to a polyester fabric in a cell format containing a super absorbent polyacrylate polymer.
Supplier:	
Polymer	AQUAKEEP +65 3158 1074
Finished product	MEDICHILL +618 9242 1232 113/396 Scarborough Beach Road Osborne Park Western Australia 6017

2. HAZARDS IDENTIFICATION

Hazard Class:	Not classified or known as a hazardous material.	At a Glance
Stability:	Absorbent pad is not harmful and is stable. The super absorbent polyacrylate polymer will absorb and swell in contact with water. The product can cause surfaces to become slippery when wet.	Health 0
Thermal decomposition:	Produces toxic fumes which may cause respiratory irritation. Move to well ventilated area.	Flammability 0
		Reactivity 0
		Exposure 0
		Storage 0
		0 = Low Hazard
		3 = High Hazard

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components:	1. Polymer 2. Fabric 3. Film
1. Polymer	Super Absorbent Polyacrylate Polymers. This ingredient is FDA (Food and Drug Authority) compliant. Indirect Food Additive Polymer identified with CAS Number 166164-74-5 ensuring compliance in all categories. Appearance: White granules. Odourless Chemical type: Cross linked polyacrylamides, sodium polyacrylates and copolymers thereof.
2. Fabric	Non Woven Polyester Bicomponent Spunbond
3. Film	Polyester/Polyethylene Film Laminate

4. FIRST AID MEASURES

Inhalation:	Absorbent pad is not a known harmful substance. If respiratory irritation occurs, remove to fresh air. Seek medical advice if symptoms persist.
Skin Contact:	Absorbent pad is not a known skin irritant. If absorbent pad is damaged and content contacts skin, wash and flush with soapy water. Seek medical advice if irritation occurs and persists.
Ingestion:	In the unlikely event of ingestion, clear and rinse mouth. Give large quantities of water for dilution. Polyacrylate absorbents are non-toxic if ingested. However, as in any instance of non-food consumption, in the event of any adverse symptoms seek medical advice.
Eye Contact:	Absorbent pad is not a known eye irritant. If absorbent pad is damaged and content contacts eyes then flush with fresh water.

5. FIRE FIGHTING MEASURES

Extinguishing methods:	Water, Dry Powder, Foam and Carbon Dioxide (CO ₂)
Extinguishing agents to avoid:	None
Special precautions:	Slippery when wet
Protective equipment:	No special protective measures required

6. ACCIDENTAL RELEASE MEASURES

Precautions:	No special precautions required. Clean up promptly by scoop or vacuum, store in container and dispose of in accordance with local regulations. Flush away any traces with water if required.
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7. HANDLING AND STORAGE

Handling:	No special precautions required
Storage & Transportation:	Store at room temperature (under 35°C) in a dry area and out of direct sunlight. Always reseal an opened carton or pack containing the absorbent pads.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Guidelines:	No special precautions required as product not regulated as a hazardous material.
Personal Protection:	In the unlikely event that the polymer powders have been released from the pads, it is recommended to wear safety glasses and gloves, while obeying good safety and housekeeping practices. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Appearance	White Granular Powder
Odour	No odour
pH	6 – 8
Specific Gravity (Bulk Density)	0.6 – 0.9 g/ml
Freezing Point	NA
Boiling Point	NA
Auto Ignition Point	> 400°C
Solubility in Water	Insoluble (swells in water)

10. PHYSICAL HAZARD (STABILITY AND REACTIVITY)

Stability:	Stable at room temperature. No hazardous polymerisation will occur. Thermal decomposition will start above 200°C.
Special condition:	Product swells and becomes slippery when it absorbs water.
Conditions to avoid:	Keep away from heat and sources of ignition. Store protected from moisture.
Hazardous Decomposition:	Thermal decomposition gives toxic vapours/products

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	Rat LD ₅₀ >2.000mg/kg
Skin irritation:	Non irritant (Human, Rabbit)
Skin corrosiveness:	None (Rabbit)
Eye irritation:	None (Rabbit)
Vaginal mucosa irritation:	None (Guinea Pig)
Skin contact sensitisation:	Not sensitising (Guinea Pig)
Mutagenicity:	Negative effect
Carcinogenicity:	No Data
Toxic to reproduction:	No Data
Specific target organ systemic toxicity:	No Data
Aspiration toxicity:	No Data
Symptoms of exposure:	Dust from powder may cause eye, nasal or bronchial irritation.

12. ECOLOGICAL INFORMATION

Persistence/degradability: Not Biodegradable

13. DISPOSAL CONSIDERATIONS

Disposal of product: Dispose in accordance with local, state or national regulations.

14. TRANSPORT INFORMATION

Shipping name: Not regulated

Hazard class: Not applicable

UN Number: Not applicable

15. REGULATORY INFORMATION

Product information: This product is not regulated as a hazardous material.

16. OTHER INFORMATION

Safe Food Compliance: Safe Food Contact Regulations
Australian Food Contact Standard AS2070;
NZ Food Safety Authority, Industry Standard 6, IAS6/13.3.3.1, 13.3.3.2, 13.3.3.3, 13.3.3.4.
(Please note under section 13.3.3.2. the sodium polyacrylate monomer is below the threshold of 1g/kg in the sodium polyacrylate polymer used in the absorbent pads.)
US Code of Federal Regulations Title 21 parts 170-199 (177.1520, 177.1350, 175.105, 178.3860)
Furthermore the absorbent pad meets the requirements as stipulated in the CFR Title 21 176(c) Table 2 – “Condition of Use”
European Commission Regulation 10/2011;
The Plastic Materials and Articles in contact with Food (England) Regulations 2009/205 (SI 2009/205).

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