

MATERIAL SAFETY DATA SHEET

Epsom Salts

SECTION 1.

Identification of the Substance and Supplier

PRODUCTS APPLICABLE	White Crest Epsom Salts: 500g, 25kg
PRODUCT USE	To treat soil deficiency, to treat constipation, and as bath salts
SUPPLIER	Simms Jones Ltd, 217 Lichfield St, Christchurch
PHONE	(03) 366 5769
FAX	(03) 365 4727
E-MAIL	cleanser@simmsjones.co.nz
EMERGENCY CONTACT	Craig Keenan 027 291 6181

SECTION 2.

Hazards Identification

HAZARDS
Not Hazardous

DISPOSAL STATEMENT
Dispose of bag and unused contents as rubbish.

SECTION 3.

Composition and Information on Ingredients

INGREDIENT	PROPORTION	CAS NUMBER
Magnesium Sulphate Heptahydrate, MgSO ₄ ·7H ₂ O	>99%	10034-99-8

SECTION 4.

First Aid Measures

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

IF ON SKIN (or hair): Flush skin and hair with running water and soap. If skin irritation or rash occurs: Get medical attention.

SECTION 5.

Fire-Fighting Measures

EXTINGUISHING MEDIA	Foam, CO ₂ , dry chemical, or water fog
COMBUSTION PRODUCTS	Sulphoxides
FIRE-FIGHTING PROCEDURES	Use standard procedure for chemical fires

SECTION 6.

Accidental Release Measures

EMERGENCY PROCEDURES	No special procedures required
ENVIRONMENTAL PRECAUTIONS	No special precautions required
SPILL CONTROL	Clean up all spills immediately. Dispose of as rubbish.

SECTION 7.

Handling and Storage

HANDLING PRECAUTIONS	Keep bag closed until ready for use. Avoid contact with skin and eyes. Avoid dust formation.
STORAGE	No special conditions required

SECTION 8.

Exposure Controls/Personal Protection

EXPOSURE LIMITS	Inspirable dust: 8 h TWA = 10 mg/m ³ (1.0 ppm) Respirable dust: 8 h TWA = 3 mg/m ³ (0.3 ppm)
ENGINEERING CONTROLS	Ensure ventilation is adequate. Keep bags closed.
RESPIRATORY PROTECTION	P1 respirator is recommended in dusty conditions
PROTECTIVE GLOVES	Nitrile rubber
EYE PROTECTION	Splash-proof goggles where splashing is possible

SECTION 9.

Physical and Chemical Properties

APPEARANCE	White crystals
ODOUR	None
ODOUR THRESHOLD	Not Applicable
pH (5% solution, 25°C)	5.0-9.2
MELTING POINT/FREEZING POINT	Not Applicable
BOILING RANGE	Not Applicable
FLASH POINT	Not Flammable
FLAMMABILITY	Not Flammable
FLAMMABILITY OR EXPLOSIVE LIMITS	Not Flammable
VAPOUR PRESSURE	Not Applicable
VAPOUR DENSITY	Not Applicable
RELATIVE DENSITY	1.67
SOLUBILITY	1130 g/L
PARTITION CO-EFFICIENT: n-OCTANOL/WATER	Not Applicable
AUTO-IGNITION TEMPERATURE	Not Applicable
DECOMPOSITION TEMPERATURE	MgSO ₄ ·7H ₂ O loses all its waters of hydration to become MgSO ₄ at 200°C. MgSO ₄ decomposes at 1124°C.
KINEMATIC VISCOSITY	Not Applicable

SECTION 10.

Stability and Reactivity

REACTIVITY	Product is stable under normal conditions
STORAGE CONDITIONS	No special conditions required
INCOMPATIBLE SUBSTANCES	None known
HAZARDOUS DECOMPOSITION PRODUCTS	Sulphoxides

SECTION 11.

Toxicological Information

ACUTE TOXICITY	Swallowing large amounts may cause nausea and vomiting
SKIN CORROSION/IRRITATION	May cause skin irritation
SERIOUS EYE DAMAGE/IRRITATION	Dust may cause mild eye irritation
RESPIRATORY OR SKIN SENSITISATION	No sensitisation
GERM CELL MUTAGENICITY	No data available
CARCINOGENICITY	Not carcinogenic
REPRODUCTIVE TOXICITY	No reproductive toxicity
SPECIFIC TARGET ORGAN TOXICITY	
-SINGLE EXPOSURE	No specific organ toxicity
-REPEATED EXPOSURE	No specific organ toxicity
ASPIRATION HAZARD	No aspiration hazard

TOXICITY

STUDY: Human, TD_{Lo}

VALUE: 428 mg/kg

SECTION 12.

Ecological Information

BIODEGRADABILITY	Not Biodegradable
BIOACCUMULATIVE POTENTIAL	Not Determined
MOBILITY IN SOIL	Not Determined

SECTION 13.

Disposal Considerations

DISPOSAL	Dispose of bag and unused contents as rubbish
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SECTION 14.

Transportation Information

UN NUMBER	Not Hazardous for transport
SHIPPING NAME	White Crest Epsom Salts
DANGEROUS GOODS CLASS	Not Hazardous for transport
UN PACKING GROUP	Not Hazardous for transport
ENVIRONMENTAL HAZARDS	Not Environmentally Hazardous
SPECIAL PRECAUTIONS	No special precautions required

SECTION 15.

Regulatory Information

HSNO APPROVAL NUMBER	Not Applicable
GROUP STANDARD	Not Applicable
SPECIAL REQUIREMENTS	Not Applicable

SECTION 16.

Other Information

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ABBREVIATIONS

8 h TWA (Time-Weighted Average)

The time-weighted average airborne concentration of a substance when calculated over an eight-hour working day for a five-day working week.

TD_{Lo} (Lowest Published Toxic Dose)

The lowest dosage of a substance known to have produced signs of toxicity in a particular species.

UN

United Nations

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