



MATERIAL SAFETY DATA SHEET

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT

Date Prepared: January 6, 1995
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Kam Biotechnology Ltd.		Specific Risks: None	
WHMIS: Not Controlled	UN# Not regulated	TDG: Not applicable	Personal Protection

CELLOZYME MD-157 SUPERSTAR

Product Code: 3146-A

1 - IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Brand Name: CELLOZYME MD 157 SUPERSTAR
Product Use: Biological Additives for Odour Control and Water Treatment
and Synonyms: N.A.
Manufacturer's Name: KAM Biotechnology Ltd.
Address: 101, 9710 – 187th Street,
 Surrey, B. C., CANADA, V4N 3N6
Telephone: (604)888-4336
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2 - COMPOSITION/INFORMATION ON INGREDIENTS

Composition:	CAS No.	RANGE IN %
Naturally occurred micro-organisms and enzymes.	Listed in DSL Canada	90-98
Dangerous ingredients	Unidentified ingredients are considered proprietary or non-hazardous under Federal Hazard Communication Standard (29 CFR 1910.1200).	
Dangerous impurity :	None	

3 – TYPES OF DANGER

Main dangers: None
Specific risks: None
Principal symptoms: Eyes: Overexposure may cause eye irritation but will not damage the tissue.
Skin: Overexposure may cause slight irritation.
Inhalation: No effect.
Classification and label:
Emergency instructions: Ingestion: No effect if ingested in small amounts. Irritation can develop if large amounts are ingested.
 Not applicable
 None





4. FIRST AID

Inhalation:	Remove the person to fresh air.
Skin contact:	Wash with soap and water. If irritation persists, seek medical aid.
Eye contact:	Flush immediately with plenty of water for at least 15 minutes. Seek medical aid.
Ingestion:	DO NOT induce vomiting. Drink a glass of water or milk. Seek medical aid.
Protection of rescuers:	None
Instructions for doctor:	None

5- FIRE FIGHTING MEASURES

Extinguishing media:	
Recommended :	Water spray, carbon dioxide or dry chemical
Not recommended :	No data
Specific dangers:	None
Special methods of intervention:	Not applicable
Protection of fire-fighters:	Not applicable
Unusual Fire And Explosion Hazards:	None known

6 – SPILL OR LEAK PROCEDURE

Personal precautions:	Wear appropriate protection.
Precautionary measures to protect the environment:	Flush to waste treatment sewer (product is biodegradable).
Cleaning methods:	For large spills contain and collect for re-use.

7 – HANDLING AND STORAGE

Handling:	Use normal hygiene and handling rules. Do not smoke during use of the product. Use in well ventilated conditions. Wear neoprene gloves and protective glasses. Use only for recommended applications. Respect recommended doses.
Storage:	
Technical measures:	
Storage conditions	
Recommended:	Cool place.
To be avoided:	Direct light and high temperature. (will affect colour)
Incompatible materials:	None
Packaging materials	
Recommended:	Plastic, Glass container.
To be avoided:	None

8 – EXPOSURE CONTROL AND PERSONAL PROTECTION MEASURES





Technical requirements:	Use local exhaust
Control parameters:	Not applicable
Personal Protection Equipment:	
Respiratory equipment:	Not required
Eye protection:	Safety glasses where splashing may occur.
Skin and body protection:	None required
Health and safety measures:	Wash hands before taking a break and at the end of the day. Handle in accordance with industrial health and safety standards and instructions

9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical appearance:	White to off-white; opaque
Form:	Liquid
Odor:	Perfumed
pH %:	6.5 – 8.5
Boiling point:	100°C
Self Ignition Temperature:	Not applicable
Explosion Characteristics:	Not applicable
Vapour Pressure (mm Hg) @ 25°C:	Equivalent to water
Vapour Density (air=1):	Equivalent to water
Solubility in Water:	99%
Specific Gravity (H₂O):	1.00 – 1.05

10 – STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Materials to avoid:	Strong acids and alkali
Dangerous products resulting from decomposition:	Will not occur

11 – TOXICOLOGY INFORMATION

Acute toxicity:	Not Available
Irritation:	
Eyes:	Overexposure may cause eye irritation but will not damage the tissue.
Skin:	Overexposure may cause slight irritation.
Ingestion:	Irritation can develop if large amounts are ingested.
Sensitizing:	No data
Chronic toxicity:	No data

12 – ECOLOGICAL DATA





Mobility:	No data	
Persistence/degradability:	Product is biodegradable	
Bioaccumulation:	No data	
13 – DISPOSAL CONSIDERATION		
Product waste & Contaminated packaging:	In accordance with the local, provincial, and federal authority regulations.	
14 – TRANSPORT INFORMATION		
International regulations:		
Land transport:	RID/ADR, Dot49 CFR-	Not regulated
Sea transport:	IMDG code	Not regulated
Air transport:	OACI-IT, IATA-DGR	Not regulated
Fluvial Transport:	ADNR	Not regulated
ONU Number:	Not applicable	
Particular precautionary measures:	None	
15 – REGULATORY INFORMATION		
EEC classification and labelling:	Not applicable	
Symbol:	Not applicable	
Risk sentences:	None	
Safety Recommendations:	None	
16 – OTHER INFORMATION		
Health:	1	
Flammability:	0	
Reactivity:	0	

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