



# MATERIAL SAFETY DATA SHEET

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

Date Prepared: January 6, 1995  
Last Date Revised: February 12, 2014

<b>Kam Biotechnology Ltd.</b>		<b>Specific Risks: None</b>	
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 – 187<sup>th</sup> Street,  
 Surrey, B. C., CANADA, V4N 3N6  
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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
<b>Dangerous ingredients</b>	Unidentified ingredients are considered proprietary or non-hazardous under Federal Hazard Communication Standard (29 CFR 1910.1200).	
<b>Dangerous impurity :</b>	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

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

#### 5- FIRE FIGHTING MEASURES

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

#### 6 – SPILL OR LEAK PROCEDURE

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

#### 7 – HANDLING AND STORAGE

<b>Handling:</b>	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.
<b>Storage:</b>	
<b>Technical measures:</b>	
<b>Storage conditions</b>	
<b>Recommended:</b>	Cool place.
<b>To be avoided:</b>	Direct light and high temperature. (will affect colour)
<b>Incompatible materials:</b>	None
<b>Packaging materials</b>	
<b>Recommended:</b>	Plastic, Glass container.
<b>To be avoided:</b>	None

#### 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION MEASURES



<b>Technical requirements:</b>	Use local exhaust
<b>Control parameters:</b>	Not applicable
<b>Personal Protection Equipment:</b>	
<b>Respiratory equipment:</b>	Not required
<b>Eye protection:</b>	Safety glasses where splashing may occur.
<b>Skin and body protection:</b>	None required
<b>Health and safety measures:</b>	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

<b>Physical appearance:</b>	White to off-white; opaque
<b>Form:</b>	Liquid
<b>Odor:</b>	Perfumed
<b>pH %:</b>	6.5 – 8.5
<b>Boiling point:</b>	100°C
<b>Self Ignition Temperature:</b>	Not applicable
<b>Explosion Characteristics:</b>	Not applicable
<b>Vapour Pressure (mm Hg) @ 25°C:</b>	Equivalent to water
<b>Vapour Density (air=1):</b>	Equivalent to water
<b>Solubility in Water:</b>	99%
<b>Specific Gravity (H<sub>2</sub>O):</b>	1.00 – 1.05

## 10 – STABILITY AND REACTIVITY

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

## 11 – TOXICOLOGY INFORMATION

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

## 12 – ECOLOGICAL DATA





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

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