



MATERIAL SAFETY DATA SHEET

Document: MSDS-DET01FF-R02

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SECTION I – PRODUCT IDENTIFICATION

Product name: Plant Enzymes Laundry Detergent Sheets – Fragrance Free
Brand: Planzymes
Recommended use: Laundry care
Emergency telephone number: +662 810 9363 or call local distributor
Emergency email: contact@corebiotech.co.th
Manufacturer: Core Biotech Co., Ltd. 99/79 Moo 3 Suanluang, Krathumbaen, Samutsakorn 74110 THAILAND

SECTION II – HAZARDOUS IDENTIFICATION

Hazard classification: This product is not classified as hazardous under EU regulations.
Eye hazard: Will cause slight irritation.
Skin hazard: Prolonged or repeated contact may cause irritation/dryness.
Respiratory hazard: Not a hazard in normal use.
Flammability hazard: Not combustible
Chronic effects: This product does not contain any ingredient designated by IARC, NTP, ACGIHor OSHA as probable or suspected human carcinogens.
Other hazards: N/A
Hazardous rating,
- Health Hazard 1 Slight
- Flammability 0 Minimal
- Reactivity 0 Minimal
Key: 0 -- Minimal; 1 -- Slight; 2-- Moderate; 3-- High; 4 -- Extreme

SECTION III – COMPOSITION AND INGREDIENTS

<u>Ingredients</u>	<u>CAS No.</u>	<u>% by weight</u>
Water	7732-18-5	20.5
Lauryl hydroxysultaine	13197-76-7	20.0
Alkyl polyglucoside	157707-88-5	16.0
Sodium dodecyl sulfate	151-21-3	14.0
Xanthan gum	11078-31-2	13.0
Sodium methyl-2-sulfo palmitate	93348-22-2	8.0
Corn starch	9005-25-8	8.0
Protease	37259-58-8	0.5

SECTION IV – FIRST AID MEASURES

Eye contact: Rinse opened eye for several minutes under running water. If irritation occurs, seek medical attention.
Skin contact: Immediately flush the contaminated skin with plenty of water for at least 15 minutes. If irritation occurs, seek medical attention.
Inhalation: Supply fresh air. Seek medical attention if respiratory irritation or distress continues.
Ingestion: Immediately rinse out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person.

SECTION V – FIRE FIGHTING MEASURES

Fire fighting media: Dry sand or water spray, CO₂, dry chemical, BC/ABC extinguishers
Unsuitable extinguishing agent: None
Special hazards arising from the substances: In combustion emits toxic fumes.

Advice for firefighter: Self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) with full protective suit.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions: Not require
Environmental precautions: No special environmental protection requirement.
Spills: Stop spill at source and contain material. Place large quantities material in container for disposal. Flush small or household quantities down acceptable sewer.

SECTION VII – HANDLING AND STORAGE

Work practices and hygiene practices: Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Use in a well ventilated location. Remove contaminated clothing immediately.
Storage and handling practices: Containers of this product must be properly labeled. Store containers in a cool and dry location. Keep container tightly close when not in use.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

None required with normal use. Eye Protection and rubber gloves may be worn for protection.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White sheet
Odor: None
pH: 9
Flammability (solid, gas): Flammable (in case of fire)
Melting point range: Not applicable
Explosion limit: Non-explosive
Boiling point range: Not applicable
Flash point: Not applicable
Vapor pressure: Not applicable
Solubility in water: Completely
Partition coefficient (n-octanol/water): No data

SECTION X – STABILITY AND REACTIVITY

Stability: Stable
Reactivity: Stable under normal handling and storage conditions.
Incompatible materials: Strong oxidizing agents, strong acids and strong bases.
Conditions to avoid: Water, high humidity, open fire, overheated and direct sunlight.
Materials to avoid: None known
Hazardous polymerization: Will not occur
Hazardous decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions: None known

SECTION XI – TOXICOLOGICAL INFORMATION

LD50: Not determined
Threshold limit value: Not determined
Effects of acute exposure,
- Ingestion: Irritation of membranes may occur.
- Inhalation: Prolonged exposure may produce headaches and mucous membrane irritation.
- Skin contact: Direct contact may cause irritation.
- Eye contact: Direct contact will cause irritation.
Effects of chronic exposure: None determined
Carcinogen status: Non-carcinogenic

SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity values:	This product contains no hazardous or toxic substances, and present a negligible impact on the environment based on its reported use pattern.
Persistence and degradability:	This product is usually with natural biodegradable.
Bioaccumulative potential:	The potential for bioaccumulation of this material in aquatic organisms is low.
Mobility in soil:	Will penetrate into the soil, will be dissolved in the soil material.
Other adverse effects,	
- PBT:	This product is not identified as a PBT substance.
- vPvB:	This product is not identified as a vPvB substance.

SECTION XIII – DISPOSAL CONSIDERATIONS

Small amounts may be flushed to sewer. Large quantities should not be flushed into the sewer system, it may foam profusely when hit with water stream. Empty container should be discarded in trash, or recycle where facilities exist. All disposal should be in accordance with local regulations.

SECTION XIV – TRANSPORT INFORMATION

Domestic:	Not Regulated
International Air:	Not Regulated
International Vessel:	Not Regulated
Special precautions for user:	Should check whether the container is full, sealed before shipping. Ensure that the product does not collapse, fail, and not damage in transport process. Transportation should prevent insolation and high temperature and water. Avoid rain, polluted, damaged, long-term exposure. Stopover should be far away from fire, heat source and high temperature and water.

SECTION XV – REGULATORY INFORMATION

Regulatory information: Reference to the local, national, US, EU, CA and international regulations.

CAS No.	TSCA	EINECS	DSL	IECSC	NZIoC	NECI	KECI	AICS	ENCS
7732-18-5	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
13197-76-7	Listed	Listed	Listed	Listed	Listed	Listed	Unlisted	Unlisted	Listed
157707-88-5	Unlisted	Listed	Unlisted	Listed	Listed	Listed	Unlisted	Unlisted	Unlisted
11078-31-2	Unlisted	Unlisted	Unlisted	Unlisted	Listed	Listed	Unlisted	Unlisted	Listed
37259-58-8	Unlisted	Listed	Unlisted	Unlisted	Listed	Listed	Listed	Unlisted	Unlisted
151-21-3	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
93348-22-2	Unlisted	Listed	Unlisted	Listed	Listed	Unlisted	Unlisted	Unlisted	Unlisted
9005-25-8	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed

TSCA:	Toxic Substances Control Act Inventory (USA)
EINECS:	The European Inventory of Existing Commercial Chemical Substances
DSL:	Domestic Substances List (Canada)
IECSC:	Inventory of Existing Chemical Substances Produced or Imported in China
NZIoC:	The New Zealand Inventory of Chemicals
NECI:	National Existing Chemical Inventory (Taiwan)
KECI:	The Korea Existing Chemicals Inventory
AICS:	The Australian Inventory of Chemical Substances
ENCS:	Existing and New Chemical Substances Inventory (Japan)

SECTION XVI – OTHER INFORMATION

Disclaimer: This information is based on current knowledge. It should not therefore be construed as guaranteeing specific properties of the products described. Users should make their own investigations to determine the suitability of the information for their particular purposes.

END OF MATERIAL SAFETY DATA SHEET