

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Symbiogen

MANUFACTURER:

Acorn Biotechnical Corporation

DATE PREPARED: 03.01.02

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HAZARDOUS INGREDIENTS	C.A.S. #	OSHA PEL/TLV	ACGIH TLV	STEL	OTHER LIMITS
None under 29 CFR 1910.1200	None	N/A	N/A	N/A	N/A

HEALTH - 1

FIRE - 0

REACTIVITY - 0

SPECIFIC HAZARD - None

BOILING POINT - 212°F

FLASH POINT - > 212°F

METHOD USED - PMCC

SPECIFIC GRAVITY - 1.1

EVAPORATION RATE (WATER = 1) - 1

% VOLATILE - 0.1

PHYSICAL DESCRIPTION - Brown, turbid liquid with distinctive odor

FLAMMABLE LIMITS: LEL - N/A

UEL - N/A

EXTINGUISHING MEDIA: Water mist, dry chemical, carbon dioxide, alcohol foam

SPECIAL FIRE FIGHTING PROCEDURE: Firefighters should wear a self-contained breathing apparatus as in all chemical fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

UNSTABLE -

STABLE - X

HAZARDOUS DECOMPOSITION PRODUCTS: May produce oxides of carbon and nitrogen.

CONDITION TO AVOID: Elevated temperatures

MATERIALS TO AVOID: Strong acids and bases

HAZARDOUS POLYMERIZATION: Will not occur.

POSSIBLE ROUTES OF ENTRY:

INHALATION - No

INGESTION - Yes

SKIN - No

ACUTE HEALTH HAZARD: May produce eye irritation and infection. May produce gastric distress upon ingestion.

CHRONIC HEALTH HAZARD: May produce an allergic response on repeated exposure to aerosols.

CARCINOGENICITY: NTP - No

IARC MONOGRAPHS - No

OSHA REGULATED - No

ORAL LD/50 - N/K

DERMAL IRRITATION - Slight

EYE IRRITATION - Slight

SYMPTOMS OF OVEREXPOSURE

EYE - Irritation

SKIN - May produce some irritation on prolonged exposure.

INHALATION - Inhalation of aerosols may produce only light irritation, but if repeated exposure occurs sensitization may develop.

INGESTION - Irritation of gastric tract

CONDITIONS AGGRAVATED BY EXPOSURE - N/K

FIRST AID

SKIN: Flush with water for 5 minutes.

EYES: Flush eye with water for 15 minutes. If irritation persists, see a doctor.

INHALATION: Avoid exposure to aerosols. If an aerosol is produced leave area until it has settled.

INGESTION: Drink large quantity of water, milk, or yogurt. DO NOT INDUCE VOMITING. If gastric distress develops, see a doctor.

SPILL SAFETY: Stop leak, dilute material with water.

DISPOSAL INFORMATION: Flush diluted material to sewer.

STORAGE AND HANDLING: Store in a cool place.



PERSONAL HYGIENE: Wash all exposed surfaces with soap and water. Do not allow material to contact open wounds. If such contact occurs, wash with soap and water and apply a superficial disinfectant.

PROTECTION - None required TYPE - N/A

VENTILATION:

GENERAL MECHANICAL - X

LOCAL -

SPECIAL - None required

PROTECTIVE EQUIPMENT REQUIRED:

RUBBER GLOVES - X

RUBBER APRON -

RUBBER BOOTS -

CHEMICAL SPLASH GOGGLES -

FACE SHIELD -

SHIPPING INFORMATION:

DOT LABEL - None required

U.N. NUMBER - None required

SPECIAL INFORMATION:

N/A = NOT APPLICABLE

N/K = NOT KNOWN

N/D = NOT DONE

OTHER COMMENTS

SARA TITLE REPORTING REQUIREMENTS

Section 302,304

Section 311,312

Section 313

CERCLA

Reporting not required

Reporting not required for inventory above TPQ

Reporting may be required for manufacturing use

Same as section 304

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