

**PROPRIETARY INFORMATION**  
**Ecosmartplastics CPC**  
**Biodegradable Additive**

**MATERIAL SAFETY DATA SHEET**

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**(1) PRODUCT AND COMPANY IDENTIFICATION**

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Date Issued: 30-APR-99 Revision Date: 26--JUL-04

Product name: Ecosmartplastics Biodegradable Additive  
Supplier: Ecosmartplastics

24-Hour Emergency ( Toll-Free ): (877)-777-7681  
Product and MSDS Information: (631)-273-3992

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**(2) COMPOSITION/INFORMATION ON INGREDIENTS**

Ethylene-Vinyl Acetate Copolymer with additive ingredients of Organoleptic-Organic chemical names/cultured colloids, natural fiber.

CAS No. for Carrier Resin: 24937-78-8

Harmonized System-Based Schedule B Code for Ecosmartplastics Biodegradable Pellets: 3901.30.6000

This product is not formulated to contain ingredients that have exposure limits established by US agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparation directives. See Section 15 for a regulatory analysis of the ingredients.

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**(3) HAZARDS IDENTIFICATION**

ACUTE: Prolonged skin or eye contact may cause irritation. Contact with hot or molten product could cause burns.  
CHRONIC: Product form makes chronic effects unlikely.  
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

**EMERGENCY & FIRST AID PROCEDURES:**

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. Consult a physician immediately.  
**EYES:** In case of contact immediately flush eye with plenty of water. Consult s physician .  
**SKIN:** Wash with mild soap and water.  
**INGESTION:** If ingested consult a physician.  
**THERMAL BURNS:** Flush with plenty of cold water. Consult a physician immediately.

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#### (4) FIRE FIGHTING MEASURES

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**EXTINGUISHING MEDIA:** Carbon dioxide foam, dry chemical and water fog. Containers cool water spray may be used to flush spills away from exposure. Prevent run off from fire control or dilution from entering streams, sewers, or drinking water supply.

**SPECIAL PROTECTIVE EQUIPMENT:** For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

**NEPA HAZARD ID:** HEALTH- -1 FLAMMABILITY- -1 REACTIVITY- - 0

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, aldehydes, acetic acid

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#### (5) ACCIDENTAL RELEASE MEASURES

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In case material is released or spilled, sweep or vacuum up and store in a closed container.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with federal, state and local regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry area in closed container.

**OTHER PRECAUTIONS:** Do not let product get wet, if product becomes wet or damp there is a possibility that a microorganism growth will appear. Do not use product. Dispose of in a proper fashion.

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#### (6) PHYSICAL AND CHEMICAL PROPERTIES

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Typical physical properties are given below. Consult product data sheet for specific use and details.

**APPEARANCE AND ODOR:** Pellet opaque white; odorless

**BOILING POINT:** N/A

**SPECIFIC GRAVITY:** N/D

**VAPOR PRESSURE:** N/A

**MELTING POINT:** N/A

**AIR DENSITY:** N/A

**EVAPORAION RATE:** N/A

**SOLUBILITY IN WATER:** Negligible

**STABILITY:** Stable/Hazardous polymerization will not occur.

**CONDITIONS AND MATERIALS TO AVOID:** Strong oxidizing agents, excessive processing temperatures and open flames.  
Excessive moisture.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Oxides of carbon, other toxic emissions are possible.

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#### (7) RATE OF ENTRY

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##### INHALATION SKIN INGESTION

Not likely

Not likely

Not likely

**CARCINOGENICITY- - NTP:** No

**CARCINOGENICITY- - IARC:** No (Monographs-colloids - - none known; Organoleptic - - no)

**CARCINOGENICITY- - OSHA:** No

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**(8) TOXICOLOGICAL DATA**


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**(ACUTE TOXICOLOGY)**

**ORAL TOXICITY (RATS):** Practically non-toxic, greater than 2000 mg/kg based on testing of similar products and/or components.

**DERMAL TOXICITY (RABBITS):** Practically non-toxic (LD50) greater than 2000 mg/kg based on testing of similar products and/or components.

**INHALATION TOXICITY (RATS):** Not established.

**EYE IRRITATION (RABBITS):** Practically non-irritating. (draize score: 0 or greater but less than 6). Based on testing of similar products and/or the components.

**COMPOSTABILITY:** EVA combined - - AEROBIC: ASTM-D.5338.92, ASTM-D5338.98, ASTM-G.21 & G.22 determined 537 days, non-toxic; ANAEROBIC: ASTM-D.5511 determined.

**ECOTOXICITY:** (RAL GZ 25 1) VALID

**FDA STATUS:** Ecosmartplastics complies with FDA regulations 21 CFR 177.1520 and FDA regulations under 21 CFR 184 and may be used in articles which are intended to contact foods at or below cooking temperatures.

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**(9) ECOLOGICAL INFORMATION**


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**ENVIRONMENTAL FATE AND EFFECTS:** Biodegradability in high solids Anaerobic digestion in landfills/ Excellent; Controlled Composting Biodegradability Aerobic inherent biodegradability / Excellent.

**ECOTOXICITY TESTING:** (RAL GZ 251) VALID non-toxic / Environmentally safe.

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<b>(10)</b>	<b>DISPOSAL</b>	<b>CONSIDERATIONS</b>
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**WASTE DISPOSAL:** This product is only suitable for processing by compost plants if they are aware that the biodegradation time will be some amount over the ASTM standards ( et al) for aerobic controlled composting ( ASTM D5338, et al.)

**LANDFILL DISPOSAL:** Can be disposed of in any Government-approved waste facility or landfill.  
Use of these methods is subject to user compliance with applicable laws and regulations, and considerations of product characteristics at time of disposal.

**RCRA INFORMATION:** The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR part 2610), nor is it formulated to contain materials which are listed hazardous waste.

**EPA TESTS CONDUCTED:** EPA-6010 (metals analysis); EPA-8260 soil (40 CFR 136 40 CFR 763 SW-846 / LAB number SL20337-1 report date 02/05/99)

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**(11) TRANSPORT INFORMATION**


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USA / DOT: Not regulated  
 IMO: Not regulated  
 IATA: Not regulated

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**(12) REGULATORY INFORMATION**


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Governmental inventory status: all components comply with TSCA

US Superfund Amendments and Reauthorization: Act (SARA) Title III: This product contains no extremely hazardous substances.

SARA (311/312) Reportable Hazard Categories: None  
 This product contains no chemicals reportable under SARA (313) Toxic Release Program

This product contains no biohazard and is totally safe for the environment.

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**(13) MATERIAL CERTIFICATION**


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The following product coded ingredients are cited on the lists below:

Reactor grade binding agent: (EVA) Ethylene-Vinyl Acetate Copolymer  
 Mixture of fatty acid soaps; Calcium; Accelerator; Organoleptic; sg/14FCC-LBGVWG; Processed Fiber ash/Husk; Acid; Insoluble Ash;  
 Accelerator Suspended: /V3200

**Microbiological Effect**

E coli: Negative

Salmonella: Negative

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**(14) PHYSICAL PROPERTIES**


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PHYSICAL PROPERTY	TEST METHOD	UNITS (SI)	TYPICAL VALUE
Melt Index (EVA Carrier)	ASTM D-1238 190/2.16	g/10min.	15.0
Density (EVA Carrier)	ASTM D-1505	g/cm3	0.9410
Melt Index (XXX-EVA)	ASTM D-1238 190/2.16	g/10 min	10.7
Special Gravity (XXX-EVA)	ASTM D-792	g/cm3	1.133

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**(15) STATE RIGHT TO KNOW**

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**In addition to the ingredients found above the following are listed for state right-to-know purposes.**

**INGREDIENTS:**

\* No ingredients listed in this section

**ADDITIONAL REGULATORY INFORMATION**

\* None known

**WHMIS CLASSIFICATION (CANADA)**

\* Not subject to WHMIS Regulations.

**FOREIGN INVENTORY STATUS**

\* Canadian DSL (Domestic Substances List)

\* EINECS (European Inventory of Existing Commercial Chemical Substances)

\* Australian chemical inventory

\* Japanese chemical inventory

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**(16) THEORETICAL ASSESSMENT**

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Judgements as to the suitability of the information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this information, but Ecosmartplastics, extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of this information for any purchaser's use or for any consequence of its use.

N/D = NOT DETERMINED

N / A = NOT APPLICABLE

**NOTICE:** Further information is available pertaining to the Ecosmartplastics plastic application.

This information was originally prepared by CHEMRISK / a service of McLaren / Hart, Inc. With additional information added by knowledgeable personnel of Ecosmartplastics.

For an Ecological Assessment of plastic products manufactured with Ecosmartplastics Biodegradable Additive: Contact Ecosmartplastics

Email: Ecosmartplastics@aol.com