

**MATERIAL SAFETY DATA SHEET****SECTION 1 — PRODUCT IDENTIFICATION**

**Product Name:** 0386 – PS Green Enzyme Digester  
**WMS Classification:** D2B: Material causing other toxic effects  
**Product use:** Grease & Waste Drain Digester  
**Product Code Number:** 40577, 40578  
**MDS Number:** 0386

**Supplier name and address:**  
 Armstrong Manufacturing Inc.  
 2485 Haines Road  
 Mississauga, ON L4Y 1Y7  
 (905) 566-1395

**Manufacturer's name and address:**  
 Refer to Supplier

**Emergency Telephone #:** CANUTEC (613) 996-6666

**SECTION 2 — CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS**

| <u>Ingredients</u>      | <u>CAS #</u> | <u>%(weight)</u> | <u>LD<sub>50</sub></u><br><u>ng/ kg</u><br><u>oral / rat</u> | <u>LD<sub>50</sub></u><br><u>ng/ kg</u><br><u>skin/ rabbit</u> | <u>LC<sub>50</sub></u><br><u>ppm</u> |
|-------------------------|--------------|------------------|--|--|--------------------------------------|
| <u>inh/ rat</u><br>NONE |              |                  |  |  |                                      |

**SECTION 3 — HAZARDS IDENTIFICATION**

\*\*\*POTENTIAL HEALTH EFFECTS\*\*\*

**Routes of entry:** Inhalation, ingestion, skin and eye contact.

**Signs and symptoms of short-term (acute) exposure:**

*Inhalation:* Inhalation of spray or mist may cause irritation of the respiratory tract.

*Skin contact:* Prolonged, repeated contact may mild cause irritation. Bacterial infection may occur through open wounds.

*Eye contact:* Can cause mild eye irritation.

*Ingestion:* May cause irritation of the gastrointestinal system and vomiting. Nausea, vomiting, or diarrhoea may result from ingestion..

**Effects of long-term (chronic) exposure:** Skin irritation may occur among hypersensitive individuals following repeated contact.

**Other important hazards:** n/ap

**SECTION 4 — FIRST AID MEASURES**

**Inhalation:** Remove victim to fresh air. If symptoms persist, call a physician.

**Skin contact:** Remove contaminated clothing. Flush area with plenty of water. If irritation persists, seek medical attention.

**Eye contact:** Flush eyes with water for at least 15 minutes, holding the eyelids open. If irritation persists, seek medical attention.

**Ingestion:** DO NOT induce vomiting. If victim is completely conscious/alert, rinse mouth with water and give one glass of water. Seek immediate medical attention.

#### SECTION 5 — FIRE FIGHTING MEASURES

**Fire hazards/ conditions of flammability:** Product is water based and non-flammable.

**Flash point (Method):** n/av (>93, PMCC)

**Lower flammable limit (%by volume):** n/av  
**Upper flammable limit (% by volume):** n/av

**Upper flammable limit (% by**

**Explosion data: Sensitivity to mechanical impact:** n/ap

**Sensitivity to static discharge:** n/ap

**Oxidizing properties:** not an oxidizer

**Auto-ignition temperature:** n/ap

**Suitable extinguishing media:** water spray, foam, dry chemical, or carbon dioxide

**Special fire-fighting procedures/equipment:** Fire-fighters should wear a positive pressure self-contained breathing apparatus, approved by NIOSH/MSHA.

**Hazardous combustion products:** Oxides of carbon.

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Gloves and safety glasses. If the release is such that a mist is created, then wear an appropriate NIOSH mask for mists.

**Environmental precautions:** General ventilation.

**Spill response/ Cleanup:** Before attempting clean-up, review hazard data in this MSDS. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered and labelled containers.

**Prohibited materials:** n/ap

#### SECTION 7 — HANDLING AND STORAGE

**Safe handling procedures:** Maintain adequate ventilation. Wear recommended personal protection. Wash hands thoroughly after handling.

**Storage requirements:** Store in a cool, dry place with lid on.

**Special packaging materials:** n/av

#### SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Ventilation and engineering controls:** general ventilation

**Respiratory protection:** If conditions are such that a mist is created wear a NIOSH/MSHA approved mask for mists.

**Protective gloves:** Protective gloves such as natural rubber, neoprene, latex, or butyl rubber should be worn to prevent skin contact.

**Eye protection:** safety glasses.

**Other protective equipment:** Make sure an eyewash station and safety shower is available.

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

**Physical form colour and odour:** Opaque green liquid. Floral odour

**Colour threshold:** n/av

**pH (as supplied):** 6.5-7.5

**Boiling point:** 100°C  
°C

**Melting/freezing point:** 0

**Vapour pressure:** n/av

**Solubility in water:** soluble

**Coefficient of oil/water distribution:** n/av

**Vapour density:** n/av

**Specific gravity or relative density (water = 1):** 1.000

**Evaporation rate:** n/av

**Volatile organic compounds (VOCs):** n/av  
(w/w)

**%Volatile by Weight:** approx.98%

#### SECTION 10 — REACTIVITY AND STABILITY DATA

**Stability and reactivity:** product is stable

**Conditions to avoid:** contact with strong oxidizers and strong acids.

**Materials to avoid:** Avoid contact with strong oxidizers and strong acids.

**Hazardous decomposition products:** Thermal decomposition can produce oxides of carbon and nitrogen, and hydrogen chloride.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

**LD<sub>50</sub>:** See Section 2.

**LC<sub>50</sub>:** See Section 2.

**Exposure limits:** ACGIH-TLV; ACGIH-STEL; ACGIH-CEILING n/av

**Carcinogenicity:** No ingredient listed by IARC, ACGIH, NTP, or OSHA as carcinogens.

**Teratogenicity, mutagenicity, other reproductive effects:** n/av

**Sensitization to material:** Skin irritation may occur among hypersensitive individuals following repeated contact.

**Conditions aggravated by exposure:** PRODUCT CONTAINS BACTERIA. Nausea, vomiting, or diarrhoea may result from ingestion. Bacterial infection may occur through open wounds.

**Synergistic materials:** n/av

#### SECTION 12 — ECOLOGICAL INFORMATION

**Environmental effects:** n/av

#### SECTION 13 — WASTE DISPOSAL

**Handling for disposal:** Reuse if possible. Do not discharge waste material into the environment.

**Methods of disposal:** Use only licensed waste disposal services. Follow local, provincial or state, and federal regulations.

#### SECTION 14 — TRANSPORTATION INFORMATION

**Shipping description:** not regulated

**Please note:** This shipping description is of a general nature only. It does not consider package sizes, modes of transport and other specific circumstances. Appropriate regulations should be referenced, and handling for transportation of dangerous goods/hazardous materials should be performed by trained personnel only.

#### SECTION 15 — REGULATORY INFORMATION

**WMS information:** D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

#### SECTION 16 — OTHER INFORMATION

**Prepared by:** Armstrong Manufacturing Inc.

**Telephone number:** (905) 566-1395

**Preparation date:** January 15, 2007

References:

1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2003.
2. International Agency for Research on Cancer Monographs, Supplement 7, 1988.
3. Canadian Centre for Occupational Health and Safety. CHEMINFO database.
4. Material Safety Data Sheets from raw materials suppliers.

n/ap Not applicable

n/av Not available

MT/js