

MATERIAL SAFETY DATA SHEET

This product is harmful if swallowed. It is not a designated Hazardous Substance according to the criteria of Worksafe Australia

This revision issued: July 2005

1. IDENTIFICATION OF CHEMICAL PRODUCT AND COMPANY

Product name: **INVADE[®] bio drain**

Other names: waste-digesting microbes

Poison Schedule: n/a

Recommended use: digestion of organic waste and odor elimination in drains

Supplier: PCT International Pty Ltd

Address: Unit 1/ 74 Murdoch Cct, ACACIA RIDGE QLD 4110

Telephone: (07) 3711 7022

Fax: (07) 3711 7055

Website: www.pct.au.com

Contact: David Pearson

Emergency telephone No: 1800 630 877

2. COMPOSITION of/ INFORMATION on/ INGREDIENTS

Concentrate of soil bacteria spores (bacillus), citrus oil, surfactant (ethoxylates, polyethylene glycol) <2%.

3. HAZARDS IDENTIFICATION

Hazard Designation: Not designated a hazardous substance.

Risk Phrases: n/a

Safety Phrases: n/a

SUSDP Classification: none allocated

ADG Classification: none allocated

UN Number: none allocated

4. FIRST AID MEASURES

General Information:	The product is harmful if swallowed. It may cause eye and dermal irritation. Prolonged inhalation may cause irritation.
Inhalation:	If symptoms of irritation occur, remove patient to fresh air.
Skin Contact:	Wash affected area with soap and water.
Eye Contact:	Flush with water for at least 15 minutes and contact a doctor if any persistent irritation results.
Ingestion:	Contact a doctor immediately. Do not induce vomiting. Rinse mouth with water and have patient drink a glass of water.
Symptoms:	Ingestion may cause vomiting and headache.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards:	Considered to be very minor.
Fire Extinguisher type:	Carbon Dioxide, foam or dry chemical.
Fire Fighting Procedures & Precautions:	Do not use water. Smother to exclude air. Wear positive-pressure self-contained breathing apparatus. Smoke may be acrid and fumes irritating.
Hazardous Decomposition Products:	None known.
Flash Point:	n/a
Flammability Class:	n/a

6. ACCIDENTAL RELEASE/ SPILLS MEASURES

Small Spill:	Wipe up with absorbent towel and place in a suitable container for disposal.
Large Spill:	Dealing with spills has the potential to increase the risk of personal exposure- during such operations, ensure that protective clothing is worn as detailed below. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away. Prevent spillage from entering drains, sewers or watercourses. If contamination thereof is unavoidable, warn the local water authority. Spills should be contained and absorbed with soil, sand, sawdust, clay, cat litter or other similar material, and once absorption is complete, this material then be placed in sealable, labeled, drums for safe disposal in an approved landfill, and in accordance with the requirements of local or State Waste Management Authorities. Alternatively, bury under at least 500 ^{mm} of soil in an area away from crops, pastures, homes or water sources. To decontaminate spill area, tools and equipment, wash with a suitable solution, e.g. organic solvent, detergent, bleach or caustic, and add this material to the drums of waste already collected. Label all contents. Do not burn empty containers or product.

7. HANDLING AND STORAGE

Handling:	No specific requirements for handling unopened containers.
Storage:	Store product in original containers at room temperature or cooler. Average shelf life of the product is 3 years at room temperature. Do not allow product to freeze. Avoid prolonged exposure to excessive heat and direct sunlight. Keep out of reach of children. Do not contaminate food or feed products.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Limits:	not known.
Ventilation:	not required.
Personal Protective Equipment:	Cotton overalls recommended.
Eye Protection:	Safety glasses recommended.
Skin Protection:	Elbow length PVC gloves recommended.
Respirator:	Use a respirator suitable for mist if product is to be sprayed in a poorly ventilated area.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical Description:	orange coloured liquid
Odour:	fresh citrus scent
Specific Gravity:	not known
Water Solubility:	emulsifies in water
Volatility:	7-10% of product by volume at 25°C
Evaporation Rate:	similar to water

10. STABILITY & REACTIVITY

Reactivity:	Stable under normal conditions of storage and use.
Conditions to Avoid:	Excessive heat, strong acids and alkalis, disinfectants.
Incompatibilities:	Strong acids, oxidizers, bactericidal compounds.
Fire Decomposition:	No known hazardous decomposition products.
Polymerisation:	None known.

11. TOXICOLOGICAL INFORMATION

Toxicity:	non-hazardous.
Chronic Effects:	Prolonged or repeated skin exposure may cause drying and irritation.
Reproductive Effects:	not known
Teratogenic Effects:	not known
Mutagenic Effects:	not known
Carcinogenic Effects:	not known
Carcinogenic status:	not known
Animal Toxicity Data:	not available

12. ECOLOGICAL INFORMATION

Effects on Birds:	not known.
Effects on Aquatic Organisms:	not known.
Effects on Other Animals (non-target species):	not known.
Environmental Persistence & Degradation:	not known.

13. DISPOSAL CONSIDERATIONS

Dispose of empty, used containers by triple rinsing, or preferably pressure rinsing. Add the rinsate to the spray tank or dispose of the rinsate in a disposal pit away from desirable plants and their roots and from watercourses. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return cleaned containers to a recycler or designated collection point. If not recycling, break, crush or puncture empty containers and bury in a local authority landfill. If no landfill available, bury the containers at least 500^{mm} deep in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN Number:	n/a
Proper Shipping Name:	n/a
Class and Subsidiary Risk:	n/a
Packing Group:	n/a
Hazchem Code:	n/a

15. REGULATORY INFORMATION

APVMA Approval No:	not required
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16. OTHER INFORMATION

This MSDS contains only safety-related information. For other data, see product literature.

The above information is correct and accurate to the best of our knowledge. However, no warranty, expressed or implied, is made as to its accuracy or completeness of data herein. Further research and investigation may be required for your particular use of this product.

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