SAFETY DATA SHEET

BIO-DEGRADABLE SANITISING ODOUR CONTROL BIN LINERS

1. IDENTIFICATION

GHS Product Identifier
BIO-DEGRADABLE SANITISING ODOUR CONTROL BIN LINERS

Company Name
HOSPECO PTY LTD

Address
17 Elizabeth Street Wetherill Park
NSW 2164 AUSTRALIA

Telephone/Fax Number
Tel: +61 2 9756 0055
Fax: +61 2 9756 0095

Emergency phone number
1800 638 556

Recommended use of the chemical and restrictions on use
Sanitising and odour masking of disposed sanitary products.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture
Not classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

GHS Classification:
Hazardous to the aquatic environment - long term hazard category 1

Signal Word (s)
WARNING

Hazard Statement (s)
H410 Very toxic to aquatic life with long lasting effects.

Pictogram (s)
Environment

Precautionary statement – Prevention
P273 Avoid release to the environment.

Precautionary statement – Response
P391 Collect spillage.

Precautionary statement – Disposal
P501 Dispose of contents/container to an approved waste disposal plant.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene</td>
<td>9002-88-4</td>
<td>&gt;60-&lt;100 %</td>
</tr>
<tr>
<td>Triclosan</td>
<td>3380-34-5</td>
<td>1-9 %</td>
</tr>
<tr>
<td>Ingredients determined not to be hazardous</td>
<td></td>
<td>Balance</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

**Inhalation**
If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

**Ingestion**
Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.

**Skin**
Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

**Eye contact**
If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

**First Aid Facilities**
Eye wash and normal washroom facilities.

**Advice to Doctor**
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use foam, dry chemical, or water spray.

**Unsuitable Extinguishing Media**
Do not use water jet.

**Hazards from Combustion Products**
Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide.

**Specific Hazards Arising From The Chemical**
Combustible. This product will burn if exposed to fire.

**Hazchem Code**
2Z

**Decomposition Temperature**
Not available

**Precautions in connection with Fire**
Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers.
6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures
Remove all sources of ignition. Increase ventilation. Evacuate all unprotected personnel. Do not breathe dust. Wear respiratory protection and full protective clothing to minimise exposure. Sweep up material avoiding dust generation - dampen spilled material with water if suitable to avoid airborne dust, OR where possible use dustless methods such as vacuum to collect the material; then transfer material in to suitable vapour tight labelled containers for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Avoid inhalation of dust, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Maintain high standards of personal hygiene i.e. by washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities
Store in a well ventilated area away from heat and sources of ignition, out of direct sunlight and moisture. Take precautions against static electricity discharges. Use proper grounding procedures. Store away from incompatible materials such as materials that support combustion (oxidising materials). Store in suitable, labelled containers. Inspect periodically for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Ensure that storage conditions comply with applicable local and national regulations.

8. EXPOSURE CONTROLS/PERSO-NAL PROTECTION

Occupational exposure limit values
No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.

Biological Limit Values
No biological limit available.

Appropriate Engineering Controls
Use with good general ventilation. A flameproof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

Respiratory Protection
If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection
Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection
Wear gloves of impervious material, such as nitrile, latex or rubber gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/ NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection
Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended.
9. PHYSICAL AND CHEMICAL PROPERTIES

Form
Solid

Appearance
Plastic bags

Colour
Clear to opaque

Odour
Floral fragrance

Decomposition Temperature
Not available

Melting Point
Not available

Boiling Point
Not available

Solubility in Water
Insoluble

Specific Gravity
Not available

pH
Not available

Vapour Pressure
Not available

Vapour Density (Air=1)
Not available

Evaporation Rate
Not available

Odour Threshold
Not available

Viscosity
Not available

Partition Coefficient: n-octanol/water
Not available

Density
Not available

Flash Point
>75°C (Pensky-Martens Closed Cup)

Flammability
Combustible

Auto-Ignition Temperature
>200°C

Explosion Limit - Upper
Not available

Explosion Limit - Lower
Not available
10. STABILITY AND REACTIVITY

Reactivity
Reacts with incompatible materials.

Chemical Stability
Stable under normal conditions of storage and handling.

Conditions to Avoid
Heat, open flames and other sources of ignition.

Incompatible materials
Strong oxidising agents, acids and alkalis.

Hazardous Decomposition Products
Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon dioxide and carbon monoxide.

Hazardous Polymerization
Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information
No toxicity data are available for this product.

Ingestion
Ingestion may irritate the gastric tract causing nausea and vomiting.

Inhalation
Inhalation of dusts may irritate the respiratory system.

Skin
May be irritating to skin. The symptoms may include redness, itching and swelling. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Eye
May be irritating to eyes. The symptoms may include redness, itching and tearing.

Respiratory sensitisation
Not expected to be a respiratory sensitisier.

Skin Sensitisation
Not expected to be a skin sensitisier.

Germ cell mutagenicity
Not considered to be a mutagenic hazard.

Carcinogenicity
Not considered to be a carcinogenic hazard.

Reproductive Toxicity
Not considered to be toxic to reproduction.

STOT-single exposure
Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure
Not expected to cause toxicity to a specific target organ.

Aspiration Hazard
Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecological information
No environmental impact data found for this material, however based on data supplied for the neat anti-microbial (Triclosan) used in this product:
BOD 5:0 mgO₂/g  
COD : 1116 mgO₂/g  
TOC : 50%  
Fish toxicity : Species : ZEBRA FISH  
LC0: Not Available  
LC50: 0.5 mg/l (96hrs)  
DAPHNIA TOX : EC50: 0.4 mg/l, 48th, OECD 201  
ALGAE TOX : EC50: 0.2 mg/l, 72h, OECD 201  
Toxicity to bacteria : 20mg/l (3 hrs) OECD 209  
OECD Biological degradation : < 10%,  
OXYGEN CONSUMPTION, OECD 301C, 302C  
Organo-halogen content : 36.7% CHLORO  
Heavy Metal content : NIL  
Phosphorous content : NIL  

Ecotoxicity
Very toxic to aquatic life with long lasting effects.  

Persistence and degradability
No environmental impact data found for this material, however based on data supplied for the neat anti-microbial (Triclosan) used in this product:  
BOD 5:0 mgO₂/g  
COD : 1116 mgO₂/g  
TOC : 50%  
OECD Biological degradation : < 10%  

Mobility
Not available  

Bioaccumulative Potential
Not available  

Environmental Protection
Do not discharge this material into waterways, drains and sewers.  

Acute Toxicity - Fish
No environmental impact data found for this material, however based on data supplied for the neat anti-microbial (Triclosan) used in this product:  
Fish toxicity : Species : ZEBRA FISH  
LC0: Not Available  
LC50: 0.5 mg/l (96hrs)  

Acute Toxicity - Daphnia
No environmental impact data found for this material, however based on data supplied for the neat anti-microbial (Triclosan) used in this product:  
DAPHNIA TOX : EC50: 0.4 mg/l, 48th, OECD 201  

Acute Toxicity - Algae
No environmental impact data found for this material, however based on data supplied for the neat anti-microbial (Triclosan) used in this product:  
ALGAE TOX : EC50: 0.2 mg/l, 72h, OECD 201  

Acute Toxicity - Bacteria
No environmental impact data found for this material, however based on data supplied for the neat anti-microbial (Triclosan) used in this product:  
Toxicity to bacteria : 20mg/l (3 hrs) OECD 209  

Other Information
No environmental impact data found for this material, however based on data supplied for the neat anti-microbial (Triclosan) used in this product:  
Organo-halogen content : 36.7% CHLORO  
Heavy Metal content : NIL  
Phosphorous content : NIL
13. DISPOSAL CONSIDERATIONS

Disposal considerations
Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information
Road and Rail Transport (ADG7):
This material is classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods
Class 9: Miscellaneous substances Dangerous Goods are incompatible in a placard load with any of the following:
Class 1: Explosives (when the class 9 substance is a fire risk substance) Division 5.1: Oxidising substances (when the class 9 substance is a fire risk substance) and
Division 5.2: Organic peroxides (when the class 9 substance is a fire risk substance)
Note: Special Provision AU01:
Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in:
packagings that do not incorporate a receptacle exceeding 500 kg(L); or IBCs

Marine Transport (IMO/IMDG):
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
UN No: 3077
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains Triclosan)
Class: 9
Packaging Group: III
EMS No: F-A, S-F
Special provisions: 274, 335, 966, 967, 969

Air Transport (ICAO/IATA):
Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
UN No: 3077
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, (Contains Triclosan)
Class: 9
Packaging Group: III
Label: Miscellaneous
Packaging Instructions (passenger & cargo): 956
Packaging Instructions (cargo only): 956
Special provisions: A97, A158, A179, A197

U.N. Number
3077

UN proper shipping name
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Contains Triclosan)

Transport hazard class(es)
9

Packing Group
III

Hazchem Code
2Z

IERG Number
47
15. REGULATORY INFORMATION

Regulatory information
Not classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule
Not Scheduled

16. OTHER INFORMATION

Date of preparation or last revision of SDS
SDS Created: May 2015

References
Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
Standard for the Uniform Scheduling of Medicines and Poisons.
Australian Code for the Transport of Dangerous Goods by Road & Rail.
Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Workplace exposure standards for airborne contaminants, Safe work Australia.
American Conference of Industrial Hygienists (ACGIH).
Globally Harmonised System of classification and labelling of chemicals.

END OF SDS

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