

MATERIAL SAFETY DATA SHEET

MSDS DATE: April 12 2019

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:
PERMATHENE ROOT BARRIER

APPLICATION:
Geomembrane for tree root

COMPANY: Permathene Ltd 404
DIVISION: Rosebank Rd
ADDRESS: Auckland NZ
PHONE: +64 (9) 968 8888

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION:
High Density Polyethylene (HDPE).

SECTION 3: HAZARDS IDENTIFICATION

No significant hazard.

SECTION 4: FIRST AID MEASURES

EYES:
Not expected to cause prolonged or significant eye irritation. If this material is heated, thermal burns may result from eye contact.

SKIN:
Not expected to be harmful.

INGESTION:
Not expected to be harmful if swallowed.

INHALATION:
Not expected to be harmful if inhaled.

SECTION 5: FIRE-FIGHTING MEASURES

FIRE FIGHTING INSTRUCTIONS:
This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus (NIOSH SCBA).

FIRE FIGHTING EXTINGUISHING: Carbon dioxide, chemical powder, foam.

SECTION 5: FIRE-FIGHTING MEASURES (con't)

EXPOSURE HAZARDS:
Combustion of this material may produce carbon dioxide, carbon monoxide, hydrocarbons and hydrocarbon oxidation products depending on temperature and environment including effect of air and wind.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTIONS:
Wear gloves, eye and face protection, protective clothing.

ENVIRONMENTAL PRECAUTIONS:
Retain materials, prevent from entering drains.

DECONTAMINATION PROCEDURES:
Solid and stable: Gather into waste containers, dispose.

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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:

Do not store in sunlight for long periods, avoid direct heat above 50 degrees Celcius. Store in cool dry place. Typical roll weight is 1381 kg.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION:

Only applicable if heat sealing rolls using fusion welding method. No gases should be produced during sealing process. Always allow adequate ventilation.

SKIN PROTECTION:

Wear protective clothing as a good industrial hygiene practice. Selection of protective clothing will depend on operations conducted. Use heat resistant gloves when heat sealing panels of materials.

RESPIRATORY PROTECTION:

No special respiratory protection is normally required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Sheet material, solid.

COLOR:

Black.

ODOR:

None.

PHYSICAL STATE:

pH AS SUPPLIED:

NA (non- aqueous).

MELTING POINT:

> 240 degrees Celcius.

MELTING POINT:

> 180 degrees Celcius.

IGNITION TEMPERATURE:

> 300 degrees Celcius.

SPECIFIC GRAVITY:

.94

EVAPORATION RATE:

NA

VOLATILE ORGANIC COMPOUNDS (VOC):

None

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable.

HAZARDOUS DECOMPOSITION PRODUCTS:

Low molecular weight hydrocarbons, alcohols, aldehydes, acids, carbon oxides and ketones can be formed during thermal decomposition.

CONDITIONS TO AVOID:

Avoid heating above the recommended processing temperature. Do not heat without adequate ventilation.

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SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

EYES:

May cause temporary irritation.

SKIN:

Unlikely effect during brief exposure.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

No adverse ecological effects are expected providing product is used in accordance with its intended use.

MOBILITY:

Solid, insoluble in water.

ENVIRONMENTAL FATE:

Material is not readily biodegradable.

ECOTOXICITY:

Fish or birds may eat UV degraded materials which may obstruct their digestive tracts.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Place collected materials in waste container and dispose of in manner consistent with applicable environmental regulations.

SECTION 14: TRANSPORT INFORMATION (con't)

PACKING GROUP:

LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

SARA 311 CATEGORIES:

1. Immediate (Acute) Health Effects: NO
2. Delayed (Chronic) Health Effects: NO
3. Fire Hazard: NO
4. Sudden Release of Pressure Hazard: NO
5. Reactivity Hazard: NO

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

This product data sheet is given for the intended application of the product. The product is not intended for any other application or use. It is the responsibility of the employer to notify the employee of all hazards described and to take necessary precautions.

DISCLAIMER:

The information presented herein, while not guaranteed, is to the best of our knowledge true and accurate. Except when agreed to in working conditions of use, no warranty expressed or implied is made regarding the performance of any product, since the manner of use and handling is beyond our control.