

Tri-Gas Membrane MSDS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier	Tri-Gas Membrane
Identified Use	Gas Barrier Geomembrane
Supplier of Data Sheet	Cordek Limited, Spring Copse Business Park, Slinfold, West Sussex RH13 0SZ
Emergency telephone number	+44(0)1403 799600 Open Monday to Friday 8.30am – 5.30pm

SECTION 2: HAZARDS IDENTIFICATION

Classification of the product	GHS: Not classified as dangerous REACH: This Product contains no chemical substance that is listed Regulation (EC) No. 1272/2008 (CLP)
Label elements	Not applicable
Other hazards	None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances	A polyolefin preparation containing the following components: <ul style="list-style-type: none"> • Calcium carbonate • Co-polymers • Pigments • Processing aids • Other thermoplastic resins • Aluminium
Mixtures	Not applicable

SECTION 4: FIRST AID MEASURES

Description of first-aid measures

After inhalation:	Combustion/heated material - Remove person to fresh air and keep comfortable for breathing. If necessary seek medical advice.
After skin contact:	Combustion/heated material - For serious burns from heated material, get medical attention. In case of skin contact, immediately immerse in or flush with clean, cold water. Do not attempt to remove adhered material from skin.
After eye contact:	Combustion/heated material - Rinse eyes with water as a precaution. Obtain medical attention if irritation persists. In case of eye contact with hot material, cool immediately with plenty of water and obtain immediate medical treatment.
After ingestion:	Remove material from mouth. Rinse mouth out with water. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

After inhalation:	Irritating vapours may form when the polymer is heated to high temperatures.
After skin contact:	Contact with skin or eyes with hot material may cause serious thermal burns to skin or eyes.
After eye contact:	Dust from this product may cause minor eye irritation. Contact with skin or eyes with hot material may cause serious thermal burns to skin or eyes.
After ingestion:	No effects are expected for ingestion of small amounts. May be a choking hazard.

SECTION 5: FIREFIGHTING MEASURES**Extinguishing media**

For small fire – Dry chemical. Carbon Dioxide. Water.
For large fire – Foam. Water spray.
Do not use high powered water jet as it may scatter and spread fire.

Special hazards arising from the product**Fire hazard:**

May be combustible at high temperature.

Explosion hazard:

Vapours generated from overheating/melting/decomposition may be flammable and may cause fire/explosion if source of ignition is present.

Hazardous decomposition products in case of fire:

Carbon oxides (CO & CO₂), nitrogen oxides, ammonia, acids, aldehydes and other gases or vapours. Fire will produce dense black smoke. Soot.

Advice for firefighters**Firefighting instructions:**

Fight fire from safe distance and protected location. Apply aqueous extinguishing media carefully to prevent frothing/steam explosion. Prevent fire-fighting water from entering environment.

Protection during firefighting:

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information:

May re-ignite itself after fire is extinguished.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Material creates a slipping hazard on hard surfaces.

Environmental precautions

Dispose of contaminated material at an authorized site.

Methods for material containment and cleaning up

Collect mechanically.

Reference to other sections

Additional information Sections 8 and 13

SECTION 7: HANDLING AND STORAGE**Precautions for safe handling****Advice on safe handling:**

Do not eat or drink when using this product. Do not overheat the product. Avoid contact with heated product to prevent burns. Prevent the build-up of electrostatic charge.

Advice on protection against fire and explosion:

Avoid sources of ignition. Do not smoke when using this product. Do not overheat the product.

Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels:**

Store at room temperature in dry, well-ventilated area. Store in packaging, protect from heat and direct sunlight.

Advice on storage compatibility:

Incompatible with strong oxidizing agents.

Specific end use

Gas Barrier Geomembrane

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters	Adequate ventilation or respiratory equipment should be provided in areas where heat is applied to polyolefin membrane materials such as thermal welding and heat sealing to protect against fumes.
Exposure controls	
Exposure control limits:	No hazardous effects known
Respiratory protection:	If heating the product, wear suitable respiratory equipment in case of insufficient ventilation. Fumes generated by the heated material may be hazardous.
Hand protection:	Wear suitable protective gloves when in contact with heated material.
Eye protection:	Wear suitable protective goggles or face shield when in contact with heated material.
Skin protection:	Wear suitable protective clothing when in contact with heated material.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state:	Solid sheet/film
Appearance:	Rolls - product wound on cores
Colour:	Various
Odour:	None
Melting point:	~ 100-110 °C
Ignition temperature:	> 360 °C
Density (at 20 °C):	~ 0.91 0.97 g/cm ³
Water solubility:	Insoluble
Other information	none

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Can create electrostatic charge
Chemical stability	Inert. Stable when handled and stored under normal conditions.
Possibility of hazardous reactions	None
Conditions to avoid	Temperatures > 300 °C. Build-up of electrostatic charge. Heat. Open flame. Sparks. Direct sunlight.
Incompatible materials	Strong oxidisers
Hazardous decomposition products	At temperatures > 300 °C, thermal decomposition gives off carbon oxides (CO & CO ₂), nitrogen oxides, ammonia, acids, aldehydes and other gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects	No evidence of acute toxicity reported. No known reports of skin sensitisation.
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SECTION 12: ECOLOGICAL INFORMATION

Toxicity	The product is not considered dangerous to the environment or harmful to aquatic organisms.
Persistence and degradability	Not biodegradable.
Bioaccumulative potential	Not expected to bioaccumulate through food chains in the environment.
Mobility in soil	Low.
PBT and vPvB assessment	No information.
Other adverse effects	No adverse effects known.

SECTION 13: DISPOSAL CONSIDERATIONS

Advice on disposal	Recycle the material as far as possible. Depending on local regulations, the product may be incinerated or disposed of in a landfill.
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SECTION 14: TRANSPORT INFORMATION

UN Number	Not classified.
UN proper shipping name	Not a hazardous material.
Transport hazard class(es)	Not regulated by ADR/RID, IATA, IMDG.
Packing group	Not a hazardous material.
Environmental hazards	Not a hazardous material.
Special precautions for user	Not a hazardous material.
Transport in bulk according to MARPOL 73/78 Annex II	Not a hazardous material.

SECTION 15: REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Registration, Evaluation, Authorisation and restriction of Chemicals (REACH):	This Product contains no chemical substance that is listed in Regulation (EC) No. 1272/2008
Globally Harmonised System of Classification and Labelling of Chemicals (GHS):	No labelling requirements.
Chemical safety assessment	For this substance a chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

As the product is classified as goods and not a chemical or chemical mix there is no obligation to make an MSDS for this material according to REACH.

However, the above information describes the safety requirements of the product and is based on our present-day knowledge. It is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal.

The information cannot be transferred to other products. In the case of mixing the product with other products, the information on this safety data sheet is not necessarily valid for the new made-up material.

If the user is in any doubt concerning the information contained herein or requires any further information, the user must immediately contact Cordek Ltd before handling or using the product.

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DISCLAIMER: Information contained within this 'Material Safety Data Sheet' is for guidance only, and it is intended for experienced construction industry workers. It contains summaries of aspects of the subject matter and does not provide comprehensive statements of construction industry practice. As conditions of usage and installation are beyond our control we do not warrant performance obtained. Please contact us if you have any doubt as to the suitability of application. The information provided within this document is based on data and knowledge correct at the time of printing.

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