

Material Safety Data Sheet

Duroflex Tank

2 Part Polymer Cementitious Membrane - liquid component

The information contained within this MSDS details health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user of this product should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Durotech Industries Pty Ltd. Durotech Industries Pty Ltd makes no representation as to the completeness and accuracy of the data contained in this data sheet. It is the user's obligation to evaluate and use this product safely, and to comply with all relevant Federal, State and Local Government laws and regulations. Durotech Industries Pty Ltd shall not be responsible for loss, damage or injury resulting from reliance upon or failure to adhere to any recommendation or information contained herein, from abnormal use of the material, or any hazard inherent in the nature of the material.

STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to criteria of Worksafe Australia.

COMPANY DETAILS

Company : Durotech Industries Pty Ltd A.B.N. 33 738 594 170
Address : 14 Essex Street, Minto, NSW, Australia
Telephone numbers : +61 (2) 9603 1177
Facsimile number : +61 (2) 9475 5059

IDENTIFICATION

Product Name : **Duroflex Tank**
Other Names : Duroflex Tank
UN Number : None assigned
Dangerous Goods Class : None assigned
Subsidiary Risk : None assigned
Shipping Name : None assigned
Hazchem Code : None assigned
Poisons Schedule Number : None assigned

Use

Major recommended uses : Waterproof membrane to be mixed with M-DL03 [powder component]

Physical Description / Properties

Appearance : White liquid with a slight odour.
Boiling Point (°C) : 100°C approx. (water)
Vapour Pressure : Approx 2.3 kPa Water
Volatile Component : 56-58%
Specific Gravity : Approx 1
Flashpoint (°C) : Not Applicable
Flammability Limits : Not Applicable
Solubility in Water : Completely miscible

Other Properties

pH : 7.0 – 9.5 (23°C)
Vapour Density : (Air = 1) < 1 water
Form : Liquid
Stability : Considered Stable
Instability : Avoid temperatures above 177°C; the onset of polymer decomposition.
Hazardous Decomposition Products : Thermal decomposition may yield acrylic monomers.

Hazardous Polymerisation : Will not occur
 Materials to avoid : Strong acids and oxidising agents.

Ingredients

Chemical Name:	CAS Number:	Proportion:
Alkyl acrylate-styrene copolymer	-	56 – 58%
Water	7732-18-5	42 – 44%

* Other ingredients determined not to be hazardous, including water, to 100%.

HEALTH HAZARD INFORMATION

Health Effects

Acute:

Swallowed	: The product is considered to be slightly toxic by ingestion.
Eye	: May be an eye irritant
Skin	: Prolonged or repeated contact with skin may result in slight skin irritation.
Inhaled	: Inhalation overexposure is not expected at normal use temperatures.

Chronic:

Principal routes of exposure are by accidental skin and eye contact and by inhalation of vapours especially at higher temperatures. As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

First Aid

Swallowed	: Give plenty of water. Seek medical assistance. Decision on induction of vomiting to be made by qualified person.
Eye	: Immediately flush with large amounts of water for at 5-10 minutes; lifting upper and lower lids. Seek medical attention if irritation persists.
Skin	: Wash with water and soap. Seek medical attention if irritation persists.
Inhaled	: If affected, move subject to fresh air. Seek medical assistance if symptoms persist.
First Aid Facilities	: Ensure availability of eye wash fountains and/or water access.
Advice to Doctor	: Treat symptomatically.

PRECAUTIONS FOR USE

Exposure Standards

Name:	STL:		TWA:	
	mg/m³	ppm	mg/m³	ppm
Polymer	-	-	-	-
Water	-	-	-	-

* **Other Exposure information:** Exposure standards not established for product, or other ingredients.

Engineering Controls : General ventilation is recommended during normal use. Local ventilation may be required during certain operations to prevent inhalation of vapours.

Personal Protection

Respirator Type (AS/NZS 1716)	:	Where concentrations in air may exceed the recommended exposure limits, or work practice or other means of exposure reduction are not adequate, approved respirator may be necessary to prevent overexposure by inhalation.
Glove Type	:	Neoprene/rubber gloves.
Eye Protection	:	Chemical worker's goggles.
Clothing	:	Protective clothing to cover body parts, e.g. long sleeved overalls or similar; and boots.
Other	:	Wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

Flammability

Fire Hazards	:	Not flammable under conditions of use. Traces of flammable material may accumulate in the vapour space of closed drums, containers, vessels etc.
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SAFE HANDLING INFORMATION

Storage & Transport

Location	:	Store in a cool area to prolong storage life.
Temperature Conditions	:	Best stored at room temperature; Prevent from freezing.
Protection from Weather	:	Store undercover and away from heat sources and electric plant.
Storage Incompatibilities	:	Not applicable.

Spills & Disposal

Clean Up Spills / Leaks	:	<i>Small spills:</i> Wipe up and wash area with water. <i>Large spills:</i> Dike and contain spill with sand or earth. Do not contaminate streams, rivers, or water courses. Do not flush down drains and sewers. Inform local authority if liquid enters drains, sewers, streams, etc. Clean up before the material dries. Absorb the liquid with sand, earth or other absorbent. Place used absorbent in suitable, sealable labelled containers.
State / Territory Authority	:	Observe all Federal, State and Local regulations.
Precautions for Clean Up Crew	:	Nitrile rubber or PVC gloves.

Fire / Explosion Hazard

Hazard of Use / Storage	:	Product will not support combustion. Polymer will burn in a general fire, once all the water has been driven off.
List of Dangerous Decomposition or Combustion Products	:	Carbon monoxide, carbon dioxide, oxides of nitrogen, fumes and smoke.
Types of Extinguisher	:	Water, Foam, CO ₂ and Dry Chemical.
Precautions	:	Fire fighters should wear self-contained breathing apparatus.
Protective Clothing	:	None
Reactivity	:	None

OTHER INFORMATION

Ecology	:	Avoid contaminating waterways and sewers.
Packaging & Labelling	:	In 10Litre (shipped in 20Litre pail)

CONTACT POINT

Durotech Industries Pty Ltd	:	+61 (2) 9603 1177
Australia Poisons Information Centre	:	13 11 26
Police & Fire Brigade:	:	000

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Duroflex Tank

2 Part Polymer Cementitious Membrane – Powder Component

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UN Number	:	None assigned
Dangerous Goods Class	:	None assigned
Subsidiary Risk	:	None assigned
Shipping Name	:	None assigned
Hazchem Code	:	None assigned
Poisons Schedule Number	:	None assigned

Use

Major recommended uses	:	Dry mix additive to be used with M-DL03 (Liquid Component)
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Physical Description / Properties

Appearance	:	Light grey/sandy mixture of sand/cement blend
Boiling Point (°C)	:	Not applicable
Vapour Pressure	:	Not applicable
Specific Gravity	:	1.66
Flashpoint (°C)	:	Not applicable
Flammability Limits	:	Not applicable
Solubility in Water	:	Not applicable

Other Properties

Vapour Density	:	Not applicable
Form	:	Sand/cement blend
Stability	:	Considered stable
Hazardous decomposition products	:	Not applicable
Hazardous Polymerisation	:	Will not occur
Materials to avoid	:	Not applicable

Ingredients

Chemical Name:	CAS Number:	Proportion:
Ivory Cement / Portland Cement	65997-15-1	Medium 10 – 20%
Washed Sand	-	High 60 – 70%

* Other ingredients determined not to be hazardous to 100%.

HEALTH HAZARD INFORMATION

Health Effects : **Sand & cement contains Portland Cement (May contain crystalline silica).**

Acute:

Swallowed : May cause nausea, stomach cramps and is mildly abrasive and corrosive and may cause constipation.

Eyes & Skin : Wet sand & cement is irritating and corrosive to the eyes and skin and may cause skin sensitization (dermatitis). Cement dust is irritating to the eyes, skin and respiratory system.

Inhaled : Repeated inhalation of the dust may cause bronchitis, silicosis and lung cancer.

Chronic: : Some Portland cement products may contain crystalline silica. Crystalline silica following repeated exposures has caused silicosis (scarring of the lung) and increased the risk of bronchitis and lung cancer. The International Agency for Research on Cancer (IARC) has evaluated crystalline silica and concluded:

a) there is sufficient evidence for the carcinogenicity of crystalline silica to experimental animals, and

b) there is limited evidence for the carcinogenicity of crystalline silica to humans.

The IARC evaluated crystalline silica as “probably carcinogenic to humans – Group 2A

First Aid

Swallowed : Rinse mouth out with water or milk. DO NOT GIVE carbonated drinks. Do NOT induce vomiting; Seek medical attention if required.

Eye : Flush eyes with tepid running water, removing foreign bodies if any, for at least 15 minutes. Seek medical advice if symptoms persist.

Skin : Wash with water and soap. Seek medical attention if irritation persists.

Inhaled : If affected, remove subject from area. Keep at rest. Seek medical assistance if symptoms persist.

First Aid Facilities : Ensure availability of eye wash fountains and/or water access.

Advice to Doctor : Treat symptomatically.

PRECAUTIONS FOR USE

Exposure Standards : Threshold limit value, TLV, is 2mg/m³ for inspirable nuisance dust load.
: Avoid contact with eyes and skin from both wet and dry sand & cement. Avoid breathing dust.

Engineering Controls : General ventilation is recommended during normal use. Local ventilation may be required during certain operations to prevent inhalation of dust.

Personal Protection

Respirator Type (AS/NZS 1716) : To be used when exposed to dust.

Glove Type : Neoprene/rubber gloves.

Eye Protection : Safety glasses as appropriate.

Clothing : Protective clothing to cover body parts, e.g. long sleeved overalls or similar; and boots.

Other : Wash hands before smoking, eating, drinking or using the toilet and after finishing work
: Observe the usual precautions when handling chemicals.

Flammability

Fire Hazards : Product is non flammable

SAFE HANDLING INFORMATION

Storage & Transport

Location : Storage of opened bags will effectively reduce the quality of the product over time. Transported as non dangerous goods.

Temperature Conditions : Best stored at room temperature.

Protection from Weather : Keep dry at all times. Store undercover and away from heat sources.

Storage Incompatibilities : Not applicable.

Spills & Disposal

Clean Up Spills / Leaks : Spills may be cleaned up by any dry method such as broom, shovel or vacuum device, with care taken to minimize evolution of dust into the environment.

Disposal : Dispose of in accordance with Local, State and Federal regulations.

Precautions for Clean Up Crew : No special precautions are required.

Fire / Explosion Hazard

Hazard of Use / Storage : None

List of Dangerous Decomposition or Combustion Products : None

Types of Extinguisher : CO₂ and Dry Chemical.

Precautions : Fire fighters should wear self-contained breathing apparatus.

Protective Clothing : None

Reactivity : None

OTHER INFORMATION

Ecology : Avoid contaminating waterways and sewers.

Packaging & Labelling : In a variety of bag sizes

CONTACT POINT

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