



**Material Safety Data Sheet
ZeraDeck-TD95 Membrane PART A**

PRODUCT INFORMATION

Manufacturer: Zeraus Products Inc.
250 Rayette Road, Unit 18
Vaughan, Ontario L4K 2G6

PRODUCT INFORMATION

Product Identifier: ZeraDeck TD-95Membrane Part A
Application and Use: Squeegee applied polyurethane membrane
Product Description: Two component polyurethane waterproofing membrane

HAZARD RATING SYSTEM (USA):

Health: 2
Flammability: 2
Reactivity: 0

WHMIS Classification (Canada):
Class D, Division 2, Subdivision B
Class B2

TRANSPORTATION OF DANGEROUS GOODS INFORMATION:

Combustible Liquid (1-methoxy-2-propanol)
Hazard Class: 3
ID Number: UN 3092
Packing Group: PG III

EMERGENCY TELEPHONE NUMBERS

Business: (905) 761-9920 24 Hours: (416) 574-5154

LABEL PRECAUTIONS

COMBUSTIBLE. MAY CAUSE SLIGHT IRRITATION TO SKIN. MAY CAUSE MINOR EYE IRRITATION. SLIGHT HEALTH HAZARAD

- Keep away from heat, sparks and flame.**
- Keep container closed.**
- Use only with adequate ventilation**
- Wash thoroughly after handling**
- Avoid breathing vapours**
- Avoid contact with eyes, skin and clothing**
- Keep away from children**
- Do not dispose down the drains**

HAZARDOUS INGREDIENTS

Ingredients	CAS#	% (weight)	LD/50 Route/Species	
Diglycidyl Ether of Bisphenol-A	25068-38-6	7-13	LD50-30g/kg(Oral-Rat)	LC50-N/A
Aromatic Hydrocarbon	64742-94-5	1-3	LD50-N/A	LC50-N/A

1-methoxy-2-propanol

107-98-2

5-15

LD50 (Rat-Oral) 6600 mg/kg

PHYSICAL DATA

Physical State: Liquid

Specific Gravity: 1.08

Solubility in Water: Slight

Boiling Point: n/av

Freezing/Melting Point: n/av

Viscosity: 3000 cps @ 23°C (73°F)

Evaporation Rate: n/av

Volatile: (voc): less than 10 %

Vapour Density: n/av

Odour: pleasant citric odour

Appearance: Coloured Liquid

Hazardous Air Pollutants: none

POTENTIAL HEALTH EFFECTS

INHALATION: Prolonged overexposure may cause coughing, shortness of breath and dizziness

EYES: May cause minor eye irritation

SKIN: May cause slight irritation seen as mild local redness. Prolonged or repeated exposure to this material can result in significant absorption.

INGESTION: Slight health hazard. Can be harmful if ingested large quantity.

INGESTION: CHRONIC: Refer to acute ingestion.

Toxic effects or reproduction: No

Teratogenicity: No

Mutagenicity: No

Carcinogenicity: No

FIRST AID MEASURES

Emergency procedures:

INHALATION: In the case of overexposure, remove to fresh air. Get medical attention if the victim is in respiratory distress.

EYE CONTACT: Flush eyes immediately with large amounts of running water for at least 15 minutes while holding eyelids open until irritation subsides. Obtain medical attention if necessary.

SKIN CONTACT: Wash immediately with plenty of soap and water. Remove and clean all contaminated clothing and launder before reuse.

INGESTION: If swallowed, drink two glasses of water. Do not induce vomiting. Do not give anything to mouth to an unconscious person. Get prompt medical attention.

PREVENTIVE MEASURES

PERSONAL PROTECTION: The selection of personal protective equipment varies depending upon conditions of use. When handling product wear long sleeves, chemical resistant gloves and safety glasses with side shields. Where splashing during mixing may occur wear full face shield. Where concentrations in air may exceed the occupational

exposure limits and where engineering work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation. The respirators may not be necessary for handling the materials in outdoor environment. Eye wash station (sink) or shower facility near the job is recommended in case of emergency.

ACCIDENTAL RELEASE MEASURES

PROCEDURE IN CASE OF LEAKS:

Prevent spills from entering sewers, watercourses or low areas. Absorb with sand or other absorbent material. Residue may be removed with hot water and detergent. All precautions should be taken when cleaning the spill with solvent.

ENVIRONMENTAL PRECAUTIONS: Avoid discharge to sewers or waterways.

SPILL CONTROL AND DISPOSAL: Dispose of sand and rinse water according to municipal, provincial or federal laws for disposal of chemicals.

HANDLING AND STORAGE

HANDLING STORAGE AND SHIPPING: Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. Do not handle or store near an open flame, sources of heat, or sources of ignition. Protect material from direct sunlight. This product will accumulate static charges which may cause an incendiary electrical discharge. Use proper grounding procedures. Empty product containers may contain product residue. **DO NOT REUSE.**

FIRE AND EXPLOSION DATA

Flashpoint and Method: 31 C (T.C.C.)

Auto ignition Temperature: Not applicable

Flammable Limits: Not Available

GENERAL HAZARDS: Combustible liquid; may release vapours that form combustible mixtures at or above the flash point. Toxic gases will form upon combustion.

FIRE FIGHTING: Wear NIOSH-approved self-contained breathing apparatus with independent air supply. Wear complete body protective butyl rubber clothing. Personnel in vicinity and downwind should be evacuated.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, and carbon monoxide, various hydrocarbons, phenol.

REACTIVITY DATA

GENERAL: This product is stable and hazardous polymerization will not occur under normal conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Excessive heating. Avoid contact with strong acids and alkalis.

HAZARDOUS DECOMPOSITION: carbon monoxide, phenol



**Material Safety Data Sheet
ZeraDeck TD-95 Membrane PART B**

PRODUCT INFORMATION

Manufacturer: Zeraus Products Inc.
250 Rayette Road, Unit 18
Vaughan, Ontario L4K 2G6

PRODUCT INFORMATION

Product Identifier: ZeraDeck TD-95 Membrane Part B
Application and Use: Squeegee applied polyurethane membrane
Product Description: Two component polyurethane waterproofing membrane (Amine Curatives)

HAZARD RATING SYSTEM (USA):

Health: 3
Flammability: 1
Reactivity: 0

WHMIS Classification (Canada):

Class D, Division 2, Subdivision A + B Class E, corrosive
Class E, Corrosive

TRANSPORTATION OF DANGEROUS GOODS INFORMATION:

Amines, liquid, Corrosive, N.O.S. (2,4,6, Tridimethylaminomethyl Phenol)
Hazard Class: 8
ID Number: UN 2735
Packing Group: III

EMERGENCY TELEPHONE NUMBERS

Business: (905) 761-9920 24 Hours: (416) 574-5154

LABEL PRECAUTIONS

CORROSIVE MATERIAL. HARMFUL IF SWALLOWED. TOXIC BY INHALATION. CAN CAUSE EYE AND SKIN BURN. MAY CAUSE SENSITIZATION.

- Keep container closed.**
- Use only with adequate ventilation**
- Wash thoroughly after handling**
- Avoid breathing vapours**
- Avoid contact with eyes, skin and clothing**
- Keep away from children**

HAZARDOUS INGREDIENTS

Aromatic Hydrocarbon	64742-94-5	0-10	LD50-N/A	LC50-N/A
Nonyl Phenol	84852-15-3	10-20	LD50->50/kg (Oral-Rat)	LC50-N/A
Epoxy Polyamine Adduct		30-40		

PHYSICAL DATA

Physical State: Liquid	Viscosity: 100 cps 23°C (73°F)
Specific Gravity: 0.98	Vapour Density: n/av
Vapour Pressure: n/av	Evaporation Rate: n/av
Solubility in Water: Slight	Volatile: (voc): 70%
Boiling Point: n/av	Odour: Characteristic amine odour
Freezing/Melting Point: n/av	Appearance: Clear
	Hazardous Air Pollutant: None

POTENTIAL HEALTH EFFECTS

Effect of Overexposure:

INHALATION: Harmful if inhaled, may affect the nervous system, causing dizziness, headache, or nausea. May cause lung irritation. May cause allergic respiratory reaction.

EYE CONTACT: can cause eye burns.

SKIN CONTACT: can cause skin burns. Can cause allergic skin reaction and sensitization.

INGESTION: Swallowing may cause severe burns to the mouth, throat and stomach. May cause vomiting, nausea and dizziness. Loss of consciousness may occur. Drowsiness may occur. Weakness and incoordination may occur.

Toxic effects or reproduction:	No
Teratogenicity:	No
Mutagenicity:	No
Carcinogenicity:	No

Acute or Chronic Exposure: Repeated and/or prolonged exposure may cause allergic reaction/sensitization. Repeated and/or prolonged exposures may result in adverse eye effects, adverse skin effect. Dryness of nasal passages may be experienced when material is inhaled over a long period of time.

FIRST AID MEASURES

Emergency procedures:

In the event of an emergency, remove the victim from further exposure, send for medical assistance, and initiate the following emergency procedures:

INHALATION: If inhaled, remove victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention.

EYE CONTACT: Flush with water for at least 15 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Get medical attention. If medical care is not promptly available, continue to irrigate for one hour.

SKIN CONTACT: Immediately remove contaminated clothing. Wash with soap and water and maintain gentle and continuous irrigation for 15 minutes. Launder contaminated clothing before reuse. Contact a physician if irritation

develops.

INGESTION: Give two glasses of water. Get medical attention immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and as the clinical condition of the patient.

PREVENTIVE MEASURES

PERSONAL PROTECTION: The selection of personal protective equipment varies depending upon conditions of use. When handling product wear long sleeves, chemical resistant gloves and safety glasses with side shields. Where splashing during mixing may occur wear full face shield. Where concentrations in air may exceed the occupational exposure limits and where engineering work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation. The respirators may not be necessary for handling the materials in outdoor environment. Eye wash station (sink) or shower facility near the job is recommended in case of emergency.

ACCIDENTAL RELEASE MEASURES

PROCEDURE IN CASE OF LEAKS:

Extinguish and eliminate source of ignition until area is determined to be free from explosion or fire hazards. Prevent spills from entering sewers, watercourses or low areas. Absorb with sand or other absorbent material (do not use sawdust). Residue may be removed with hot water and detergent. Flush small spills with water.

ENVIRONMENTAL PRECAUTIONS: The product is toxic to aquatic life in liquid form. Avoid discharge to sewers or waterways.

SPILL CONTROL AND DISPOSAL: Dispose of sand and rinse water according to municipal, provincial or federal laws for disposal of chemicals.

HANDLING AND STORAGE

HANDLING STORAGE AND SHIPPING: Keep container closed. Wear personal protective equipment. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. Keep away from heat, sparks, open flames and oxidizing agent. Protect material from direct sunlight. This product will accumulate static charges, which may cause an incendiary electrical discharge. Use proper grounding procedures. Empty product containers may contain product residue. **DO NOT REUSE.**

FIRE AND EXPLOSION DATA

Flashpoint and Method: >75°C (T.C.C.)
Autoignition Temperature: Not Available
Flammable Limits: Not Available

GENERAL HAZARDS: Flammable liquid; may release vapour that form combustible mixtures at or above the flash point. Toxic gases will form upon combustion.

FIRE FIGHTING: Personnel in vicinity and downwind should be evacuated. Fire fighters should wear approved self contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION PRODUCTS: May generate toxic or irritating combustion products. Ammonia, carbon monoxide and/or carbon dioxide and oxides of Nitrogen.

REACTIVITY DATA

GENERAL: This product is stable and hazardous polymerization will not occur under normal storage conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Excessive heating, sparks and open flames. Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION: Irritating and toxic fumes at elevated temperatures. Ammonia when heated. Oxides of nitrogen. Organic acid vapours. Nitric acid. Nitrosamines. Nitrogen oxides can react with water vapours to form corrosive nitric acid. Carbon monoxide and/or dioxide. May generate ammonia gas.

PREPARATION

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