



Material Safety Data Sheet

NON HAZARDOUS – CHEMICAL IDENTIFICATION CODE NOT APPLICABLE

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING:

Product Name : HYDROTHANTE TR2 PART A
HS CODE : 32089000
Application : Two Component Polyurethane Based Tar Extended
Liquid Applied Waterproofing Membrane
Manufacturer : MATEX CONSTRUCTION CHEMICALS
MANUFACTURING CO. L.L.C.
Address : P.O. Box 29585
Telephone : +971 4 3334140
Fax : +971 4 3334115
Email : info@matex.ae
Website : www.matex-global.com

2. HAZARDS IDENTIFICATION:

Hazard Classification : Hazardous according to criteria of NOHSC
Risk Phrase (s) : R 20 - Harmful by inhalation
R 36/37/38 - Irritating to eyes, respiratory system
and skin
Safety Phrase (s) : S 16 - Keep away from sources of ignition
S 36/37/39 - Wear suitable protective clothing
Gloves and eye/face protection
S 51 - Use only in well-ventilated areas

3. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients	% Composition	CAS No.
Polyol Resin	35-50	9003-13-8
Asphalt petroleum	30	8052-42-4
Naptha light aromatic	5	64742-95-6
Inorganic filler	45-50	14808-60-7



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4. FIRST AID MEASURES:

Ingestion	:	DO NOT induce vomiting. Wash mouth with water and seek immediate medical attention.
Eyes	:	While holding eyes open, gently flood with plenty of fresh water for 15 minutes. If irritation persists or recurs seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.
Skin	:	Remove contaminated clothing. Flush contacted area thoroughly with soap and plenty of water. If irritation persists, seek medical attention. If irritation persists seek medical attention.
Inhalation	:	Remove to fresh air. If breathing is difficult, give oxygen and seek medical attention immediately.
First aid facilities	:	Ensure availability of clean water for eye/skin wash.
Advice to doctor	:	Treat symptomatically.

5. FIRE FIGHTING MEASURES:

Suitable Extinguishing Media	:	Foam, CO ₂ and Dry Chemical.
Hazards from combustion products	:	Oxides of carbon
Precautions and equipment for the fighters	:	Containers can build up pressure. If exposed to heat (fire). Full protective clothing with self contained breathing apparatus as per personnel protection, section 8.
Advice to doctor	:	3Y



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6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions	:	Wear rubber boots in addition to the recommended protective clothing.
Environmental Precautions	:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures	:	Avoid the creation of dust in atmosphere. Gather into containers. Residues may be flushed to drain with large volumes of water.

7. HANDLING AND STORAGE:

<u>Information for safe handling</u>	:	Avoid ignition sources. Vapours can travel to a source of ignition and flash back. Do not pressurise, cut, weld, braze, solder, drill, grind or expose such container to heat, flame, sparks, static electricity or other sources of ignition; containers may explode and cause injury or death. Use spark-proof tools and explosion proof equipment. Ground and bound containers when transferring material. Fire produces irritating or poisonous gas.
<u>Condition for a safe storage</u>	:	
Location	:	Store in a cool, dry and well-ventilated area.
Temperature conditions	:	5 to 35°C. Avoid long-term exposure to elevated temperatures.
Protection from weather	:	Store undercover and away from direct sunlight, heat and moisture.
Storage incompatibilities	:	Avoid contact with oxidizing material, alcohol and water.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Exposure Standards	:	Not available
Engineering Controls	:	Natural ventilation should be adequate under normal use conditions. State regulations on speed and direction of airflow away from operators must be observed. Keep containers closed when not in use. Keep out of reach of children.

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Personal protective equipment

Respiratory protection	:	Type A1 if ventilation is inadequate.
Glove type (AS2161)	:	Long PVC or nitrile rubber gauntlets
Eye protection	:	Chemical worker's goggles.
Clothing	:	Overalls.
Other	:	Use barrier creams to protect skin from contact with the material. Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	:	Thick black paste with strong solvent odour.
Boiling point (°C)	:	150 - 380
Melting point (°C)	:	Not applicable
Vapour pressure @ 25°(kPa)	:	Not applicable
Specific gravity	:	1.3
Flash point (°C)	:	> 50
Flammability limits (%)	:	UEL – 7.0 LEL – 0.9
Solubility in water	:	Insoluble
Evaporation rate	:	Slower than butyl acetate

10. STABILITY AND REACTIVITY:

Stability	:	Stable
Conditions to Avoid	:	Exposure to air, contamination with water.
Materials to Avoid	:	Strong acids.
Hazardous Decomposition	:	None

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11. TOXICOLOGICAL INFORMATION:

Acute

Ingestion	:	Irritating to mouth, throat and stomach.
Eye	:	Causes eye irritation.
Skin	:	Causes skin irritation. Repeated or prolonged skin contact can result in defatting and drying of the skin, which may result in skin irritation and dermatitis (rash).
Inhalation	:	Harmful if inhaled. Headaches, dizziness, nausea, decreased blood pressure; changes in heart rate and cyanosis may result from overexposure to vapour.
Chronic	:	Susceptible individuals may develop allergic reactions such as dermatitis on a single significant skin or respiratory exposure or may become sensitised to the material on repeated and prolonged contact. Hence it is imperative that all forms of exposure be kept to an absolute minimum. This product contains solvents. Be warned that intention misuse by deliberately inhaling the contents may be harmful and fatal.

12. ECOLOGICAL INFORMATION:

Ecology	:	Do not discharge into sewers.
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13. DISPOSAL CONSIDERATIONS:

Disposal Methods

State/Territory authority	:	Observe all Federal, State and Local regulations
Dispose – Secure landfill	:	Yes.
Dispose – High temp incinerator:	Yes	
Precautions for clean up crew	:	Full protective clothing with self-contained breathing apparatus as per personal protection in section 8.

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14. TRANSPORT INFORMATION:

UN number	:	1263
Dangerous goods class	:	3
Subsidiary risk	:	None allocated
EPG card	:	3C1
Shipping name	:	PAINT
Packing group	:	III
Poisons schedule	:	5
Hazchem code	:	3Y

15. REGULATORY INFORMATION:

Risk phrase(s)	:	R 20	- Harmful by inhalation
	:	R 36/37/38	- Irritating to eyes, respiratory system and skin.
Safety phrase(s)	:	S 16	- Keep away from sources of ignition
	:	S 36/37/39	- Wear suitable protective clothing, gloves and eye/face protection
	:	S 51	- Use only in well-ventilated areas.

16. OTHER INFORMATION:

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other applications. Use of the product for applications other than as stated in the sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from MATEX.

If the product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from MATEX.



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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING:

Product Name	:	HYDROTHANE TR2 – PART B
HS CODE	:	32089000
Application	:	Two Component Polyurethane Based Tar Extended Liquid Applied Waterproofing Membrane
Manufacturer	:	MATEX CONSTRUCTION CHEMICALS MANUFACTURING CO. L.L.C.
Address	:	P.O. Box 29585
Telephone	:	+971 4 3334140
Fax	:	+971 4 3334115
Email	:	info@matex.ae
Website	:	www.matex-global.com

2. HAZARDS IDENTIFICATION:

Hazard Symbol(s)	:	Xn, Harmful
Risk Phrase(s)	:	R42/43 May cause sensitization by inhalation and skin contact
	:	R20 Harmful by inhalation
	:	R36/37/38 Irritating to eyes, respiratory system and skin
S-phrases(s)	:	S2 Keep out of reach of children
	:	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	:	S35 This material and its container must be disposed of in a safe way.
	:	S36/37 Wear suitable protective clothing and gloves
	:	S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	:	S46 If swallowed, seek medical advice immediately and show this container or label.
	:	S51 Use only in well-ventilated areas
	:	S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

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3. COMPOSITION / INFORMATION ON INGREDIENTS:

INGREDIENTS:		
Name	% Composition	CAS No.
diphenylmethanediisocyanate	100	9016-87-9

4. FIRST AID MEASURES:

General Advice	:	First aid personnel should pay attention to their own safety. Remove contaminated clothing.
Skin contact	:	Flush with large amounts of clean water, use soap if available. Remove any contaminated clothing.
Eye contact	:	Check for and remove any contact lenses. Flush with large amounts of clean warm water for 15 minutes. Get prompt medical attention.
Inhalation	:	Immediately move victim to fresh air. If breathing has stopped then administer artificial respiration. Get prompt medical attention.
Ingestion	:	Guard against aspiration into lungs. If victim is conscious and alert, give glasses of water. Get prompt medical attention.
Note to Physician	:	
Treatment	:	Treat according to symptoms (decontamination, vital functions), no known specific antidotes.

5. FIRE FIGHTING MEASURES:

Suitable Extinguishing Media	:	Foam, water spray, dry extinguishing media, carbon dioxide.
Unsuitable Extinguishing Media:	:	Water jet.
Specific Hazards	:	Carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes / smoke, carbon black
Special Protective Equipment	:	Appropriate-breathing apparatus may be required
Additional information	:	Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

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6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions	:	Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Sources of ignition should be kept well clear. Handle in accordance with good building materials hygiene and safety practice.
Environmental Precautions	:	Prevent entry into drains, sewers and water courses.
Methods for Cleaning up or Taking UP	:	For small amounts – Pick up the inert absorbent material like sand, earth, etc. Dispose of contaminated material as prescribed. For large amounts – Pump off products.

7. HANDLING AND STORAGE:

Handling	:	Avoid aerosol formation. Avoid inhalation of mists / vapours. Avoid skin contact. No special measures necessary provided product is used correctly.
Storage	:	Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Store protected against freezing and against direct sunlight. Protect from temperatures below 5°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS:

NOHSC 1003 (1995)		
Exposure Standard	:	Isocyanate 0.02 mg/m ³ TWA, 0.07 mg/m ³ STEL (as NCO)
Engineering Control Measures	:	Use with adequate general and local exhaust ventilation
Equipment	:	Personal Protective Impervious gloves, safety goggles, plastic apron

9. PHYSICAL AND CHEMICAL PROPERTIES:

Form	:	Liquid
Colour	:	Yellowish
Odour	:	Earthy
Change in physical state	:	N/A
Boiling point, °C (mm Hg)	:	N/A

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Melting point, °C	:	< 0°C
Boiling Point (°C)	:	N/A
Flash Point (°C)	:	> 200°C
Autoignition temperature (°C)	:	> 400°C
Thermal decomposition	:	N/A
Specific gravity (°C)	:	1.4 (25)
Viscosity (mPa.s)	:	200-500
Vapour pressure (50°C)	:	< 0,0001 hPa
pH value (°C)	:	N/A
Solubility in water (°C)	:	N/A

10. STABILITY AND REACTIVITY:

Conditions to Avoid	:	Stable under recommended storage and handling conditions
Materials to Avoid	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Exothermic reactions with amines and alcohols. In contact with water (moisture) CO ₂ is formed which leads to an excess pressure in closed containers.
Hazardous Decomposition Products	:	When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION:

Experience on Practice	:	Based on the properties of the isocyanate components and considering toxicological data on similar preparations, this preparation may cause acute irritation and / or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL (Occupational Exposure Limit). Repeated exposure may lead to permanent respiratory disability. Delayed reactions possible (breathing problems, coughs, asthma).
Additional Toxicological Information	:	The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General

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12. ECOLOGICAL INFORMATION:

Ecotoxicity	:	
Assessment of Aquatic Toxicity	:	There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.
Information on Methylenediphenyl Diisocyanate	:	
Assessment of Aquatic Toxicity	:	There is a high probability that the product is not acutely harmful to aquatic organisms. No toxic effects occur within the range of solubility. The inhibition of degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
Toxicity to Fish	:	LC0 (96h) > 1,000 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1, static) Nominal concentration.
Aquatic Invertebrates	:	EC0 (24h) > 1,000 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)
Aquatic Plants	:	No observed effect concentration (72h) > 1,640 mg/l, scenedesmus subspicatus (OECD Guideline 201)
Microorganisms / Effect On Activated Sludge	:	EC50 > 100 mg/l, activated sludge (OECD Guideline 209, aquatic)

13. DISPOSAL CONSIDERATIONS:

Observe national and local legal requirements. Residues should be disposed of in the same manner as the substance / product.

Contaminated Packaging	:	Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.
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14. TRANSPORT INFORMATION:

Domestic Transport	:	Not classified as a dangerous good under transport regulations.
Sea Transport IMDG	:	Not classified as dangerous good under transport regulations.
Air Transport IATA / CAO	:	Not classified as dangerous good under transport regulations.

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15. REGULATORY INFORMATION:

EEC Directives:

Hazard Symbol(s)	:	Xn, harmful
R-phrases(s)	:	R42/43, May cause sensitization by inhalation and skin contact
	:	R20, Harmful by inhalation
	:	R36/37/38, Irritating to eyes, respiratory system and skin
S-phrases(s)	:	S2, Keep out of reach of children
	:	S26, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	:	S35, This material and its container must be disposed of in a safe way.
	:	S36/37, Wear suitable protective clothing and gloves
	:	S45, In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	:	S46, If swallowed, seek medical advice immediately and show this container or label.
	:	S51, Use only in well-ventilated areas
	:	S63, In case of accident by inhalation: remove casualty to fresh air and keep at rest.
	:	S64, If swallowed, rise mouth with water (only if the person is conscious).

Contains isocyanates. Observe manufacturer's instructions.

Hazard Determining Components For Labeling	:	Diphenylmethane– Diisocyanate (MDI), Methylenediphenyldiisocyanate, Poly-functional isocyanate
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