

MATERIAL SAFETY DATA SHEET

Water Matrix

Matrix Eco-Layer

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name : Matrix Eco-Layer**Product Use :** drain trap liquid**Supplier Name and Address :**Water Matrix
331 Trowers Rd., Ste. 3
Woodbridge, ON L4L 6A2**Manufacturer Name and Address:**

Refer to Supplier

Emergency Telephone # :

Canutec (613) 996-6666

Emergency Telephone # :

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients	CAS#	Wt%	TLV-TWA(8h)	STEL	CEILING
Light mineral oil	8042-47-5	100	5 mg/m ³ (oil mist)	10 mg/m ³ (oil mist)	Not established
Manufacturer Recommendation: Not applicable					
Other Exposure Limits: Consult local, state, provincial or territory authorities for acceptable exposure limits.					

SECTION 3: HAZARDOUS IDENTIFICATION

Potential Health Effects:

Prolonged or repeated contact may cause skin irritation, defatting, drying and dermatitis. Not expected to cause more than slight skin or eye irritation. With its relatively low vapour pressure, this product is not expected to be inhaled in any appreciable quantity at ambient conditions. If heated to high temperatures or subjected to mechanical actions, which produce vapours or mists, inhalation may cause respiratory tract irritation. Ingestion may produce a laxative effect. For more information refer to Section 11 of this MSDS.

SECTION 4: FIRST AID MEASURES

Eye Contact: No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the chemical is removed. If irritation persists, obtain medical advice.

Skin Contact: Quickly and gently, blot or brush away excess chemical. Wash gently and thoroughly with water and non-abrasive soap for 5 minutes or until chemical is removed. Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts, etc.). If irritation persists, repeat flushing. Obtain medical advice immediately. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

Inhalation: Remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.

Ingestion: NEVER give anything to mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT induce vomiting because of danger of aspirating liquid into lungs. Have victim drink 240 to 300 ml (8 to 10 oz) of water to dilute material in stomach. If vomiting occurs naturally, rinse mouth and repeat administration of water. Obtain medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Flammability: May be combustible at high temperature.

Flammable Limits: Not available

Flash Point deg (C,TCC) : open cup: >170°C (338°F) (Cleveland)

Auto-Ignition Temperature: Not available

Special Fire Hazards: Fire fighters should wear self contained breathing apparatus.

Fire Hazards in Presence of

Various Substances:

Low fire hazard. This material must be heated before ignition will occur.

Explosion Hazards in Presence

of Various Substances:

Do not cut, weld, heat, drill or pressurize empty container. Containers may explode in heat of fire.

Products of Combustion:

At temperatures above 60 C/140F acid action on most metals may release hydrogen, a highly flammable and explosive gas.

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**Fire Fighting Media and
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NAERG2004, GUIDE 171, Substances (low to moderate hazard). If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (0.5 mile) in all directions; also, consider initial evacuation for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from area and let fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire. Cool containing vessels with water spray in order to prevent pressure build-up, auto-ignition or explosion. **SMALL FIRE:** use DRY chemicals, foam, water spray or CO₂. **LARGE FIRE:** use water spray, fog or foam. For small outdoor fires, portable fire extinguishers may be used, and self contained breathing apparatus (SCBA) may not be required. For all indoor fires and any significant outdoor fires, SCBA is required. Respiratory and eye protection are required for fire fighting personnel.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Material Release or Spill: Consult current National Emergency Response Guide Book (NAERG) for appropriate spill measures if necessary. Ensure clean-up personnel wear appropriate personal protective equipment. Extinguish all ignition sources. Stop leak if safe to do so. Dike spilled material. Use appropriate inert absorbent material to absorb spilled product. Collect used absorbent for later disposal. Avoid contact with spilled material. Notify appropriate authorities immediately.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact with any sources of ignition, flames, heat, and sparks. Avoid skin contact. Avoid eye contact. Avoid inhalation of product vapours or mists. Wear proper personal protective equipment (see Section 8). Empty containers may contain product residue. Do not pressurize, cut, heat, or weld empty containers. Do not reuse containers without commercial cleaning and/or reconditioning. Personnel who handle this material should practice good personal hygiene during and after handling to help prevent accidental ingestion of this product. Properly dispose of contaminated leather articles including shoes that cannot be decontaminated.

Storage: Store in dry, cool, well-ventilated area. Keep container tightly closed. Store away from incompatible and reactive materials (see section V and X).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: For normal application, special ventilation is not necessary. If user's operations generate vapours or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Make-up air should always be supplied to balance air removed by exhaust ventilation. Ensure that eyewash station and safety shower are close to work station.

Personal Protection: **The selection of personal protective equipment varies, depending upon conditions of use.**

Eyes: As a minimum, safety glasses with side shields should be worn when handling this material.
Body: If this material may come in contact with the body during handling and use, we recommend wearing appropriate protective clothing to prevent contact with the skin. (Contact your PPE provider for more information.)
Respiratory: A NIOSH-approved air-purifying respirator with an organic vapour cartridge or canister with a dust, fume or mist filter (R, or P series) may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. A NIOSH-approved positive-pressure, air-supplied respirator or self-contained breathing apparatus may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.
Hands: If this material may come in contact with the hands during handling and use, we recommend

wearing gloves of the following material(s): neoprene, nitrile, polyvinyl alcohol (PVA), fluoro-elastomer. Consult your PPE provider for breakthrough times and the specific glove that is best for you based on your

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use patterns. It should be realized that eventually any material regardless of their imperviousness, will get permeated by chemicals. Therefore, protective gloves should be regularly checked for wear and tear. At the first signs of hardening and cracks, they should be changed.

Feet: Wear appropriate footwear to prevent product from coming in contact with feet and skin.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance: liquid	Density: 0.859 kg/L @ 15°C (59°F)
Colour: blue	Vapour Density: not available
Odour: no odour or slight petroleum oil like	Vapour Pressure: not available
Odour Threshold: not available	Volatility: not available
Boiling Point: not available	Oil / Water Dist Coefficient: not available
Viscosity: 12.2 cSt @ 40°C (104°F)	Ionicity (in water): not available
Pour Point: <-15°C (5°F)	Dispersion Properties: not available
Softening Point: not applicable	Solubility: in soluble in water
Dropping Point: not applicable	Penetration: not applicable

SECTION 10: STABILITY AND REACTIVITY

Corrosivity:	Not available
Stability:	The product is stable under normal handling and storage conditions.
Incompatible Substances / Conditions to Avoid:	Reactive with oxidizing agents.
Hazardous Polymerization:	Will not occur under normal working conditions.
Decomposition Products:	May release Cox, smoke and irritating vapours when heated to decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry:	Skin contact, eye contact, inhalation and ingestion.
Acute lethality:	Acute toxicity information is not available for the product as a whole, therefore, data for the base oils are provided below: Acute Oral toxicity (LD50): >5000 mg/kg (rat) Acute Dermal toxicity (LD50): >2000 mg/kg (rabbit) Acute Inhalation toxicity (LD50): >2500 mg/m ³ /4h (rat)

Chronic or Other Toxic Effects

Dermal Route:	Short-term exposure is expected to cause only slight irritation, if any. Prolonged or repeated contact may defat and dry skin, and cause dermatitis.
Inhalation Route:	With its relatively low vapour pressure, this product is not expected to be inhaled in any appreciable quantity at ambient conditions. If heated to high temperatures or subjected to mechanical actions which produce vapours or mists, inhalation may cause respiratory tract irritation.
Oral Route:	Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the lungs). May produce a laxative effect.
Eye Irritation/Inflammation:	Short-term exposure is expected to cause only slight irritation, if any.
Immunotoxicity:	Not available.
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.
Mutagenic:	This product is not known to contain any components at >=0,1% that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.
Reproductive Toxicity:	This product is not known to contain any components at >=0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.

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Teratogenicity/Embryotoxicity:

This product is not known to contain any components at $\geq 0.1\%$ that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.

Carcinogenicity (ACGIH):

This product is not known to contain any chemicals at reportable quantities that are listed as Group A1 or A2 carcinogens by ACGIH.

Carcinogenicity (IARC):

This product is not known to contain any chemicals at reportable quantities that are listed as Group 1, 2A, or 2B carcinogens by IARC.

Carcinogenicity (NTP):

This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP.

Carcinogenicity (IRIS):

This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS.

Carcinogenicity (OSHA):

This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by OSHA.

Other Considerations:

Not available.

SECTION 12: ECOLOGICAL INFORMATION

Environmental Fate:

Not available

BOD5 and COD:

Not available

Persistence /

Bioaccumulation Potential:

Not available

Products of Biodegradation:

Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:

Spent/used/waste product may meet the requirements of a hazardous waste. Consult your local or regional authorities. Ensure that waste management processes are in compliance with government requirements and local disposal regulations.

SECTION 14: TRANSPORTATION

T.D.G. Classification:

Not a hazardous material for transport according to the TDG regulations (Canada).

Special provisions for Transport:

Not applicable.

SECTION 15: REGULATORY INFORMATION

Other Regulations:

This product is acceptable for use under the provisions of WHMIS-CPR. All components of this formulation are listed on the CEPA-DSL (Domestic Substances List). All components of this formulation are listed on the US EPA-TSCA Inventory. All components of this product are on the European Inventory of Existing Commercial Chemical Substances (EINECS). This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. Please contact Product Safety for more information.

DSD/DPD (Europe)

Not evaluated.

HCS (U.S.A.)

Does not meet the definitions of a health, or physical hazard according to the OSHA – Hazard Communication Standard. (United States)

ADR (Europe)

Not evaluated for European Transport

DOT (U.S.A.)

Not evaluated for transport

HMIS (U.S.A.)

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	B

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NFPA (U.S.A.)

Health	1
Fire Hazard	1
Reactivity	0
Specific Hazard	n/a

Rating: 0 Insignificant
 1 Slight
 2 Moderate
 3 High
 4 Extreme

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SECTION 16: OTHER INFORMATION

GLOSSARY

ACGIH – American Conference of Government Industrial Hygienists	IARC – International Agency for Research on Cancer
ADR - Agreement on Dangerous Goods by Road (Europe)	IRIS – Integrated Risk Information System
ASTM – American Society for Testing and Materials	LD50/LC50 – Lethal Does/Concentration kill 50%
BODS – Biological Oxygen Demand in 5 days	LDLo/LCLo – Lowest Published Lethal Dose/Concentration
CAS – Chemical Abstract Services	NFPA – National Fire Prevention Association
CEPA – Canadian Environmental Protection Act	NIOSH – National Institute for Occupational Safety & Health
CERCLA – Comprehensive Environmental Response, Compensation and Liability Act	NPRI – National Pollutant Release Inventory
CFR – Code of Federal Regulations	NSNR – New Substances Notification Regulations (Canada)
CHIP – Chemical Hazard Information and Packaging Approved Supply List	NTP – National Toxicology Program
COD – Chemical Oxygen Demand	OSHA – Occupational Safety & Health Administration
CPR – Controlled Products Regulations	PEL – Permissible Exposure Limit
DOT – Department of Transportation (U.S.A.)	RCRA – Resource Conservation and Recovery Act
DSCL – Dangerous Substances Classification and Labeling (Europe)	SARA – Superfund Amendments and Reorganization Act
DSD/DPD – Dangerous Substance or Dangerous Preparations Directives (Europe)	STEL – Short Term Exposure Limit (15 minutes)
DSL – Domestic Substance List (Canada)	TDG – Transportation Dangerous Goods (Canada)
EEC/EU – European Economic Community/European Union	TDL_o/TCL_o – Lowest Published Toxic Does/Concentration
EINECS – European Inventory of Existing Commercial Chemical Substances	TLV-TWA – Threshold Limit Value – Time Weighted Average
EPCRA – Emergency Planning and Community Right-To-Know Act	TL_m – Median Tolerance Limit
FDA – Food and Drug Administration	TSCA – Toxic Substances Control Act
FIFRA – Federal Insecticide, Fungicide and Rodenticide Act	USEPA – United States Environmental Protection Agency
HCS – Hazardous Communication System	USP – United States Pharmacopoeia
HMIS – Hazardous Material Information System	WHMIS – Workplace Hazardous Material Information System

To the best of our knowledge, the information contained herein is accurate. However, neither the supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Water Matrix assumes no responsibility by its issuance of this information.

Prepared by : Water Matrix
Telephone # : 905 850 8080
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