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## Section 01 - Identification

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<b>Product Identifier</b>	Organic Tar Remover
<b>Other Means of Identification</b>	None
<b>Product Use and Restrictions on Use</b>	Environmentally safe solvent for removing tar.
<b>Initial Supplier Identifier</b>	Advance Chemicals Ltd. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
<b>Prepared By</b>	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
<b>24-Hour Emergency Phone</b>	Phone: 1 (306) 664 – 2522

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## Section 02 - Hazard Identification

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### GHS-Classification

<b>Skin Corrosion/Irritation</b>	Category 2
<b>Serious Eye Damage/Irritation</b>	Category 2
<b>Skin Sensitization</b>	Category 1B
<b>Aspiration Hazard</b>	Category 1
<b>STOT-Single Exposure</b>	Category 3

### Physical Hazards

<b>Flammable Liquid</b>	Category 3
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### **Danger**

### **Hazards Statements**

H315 – Causes skin irritation.  
H319 – Causes serious eye irritation.  
H317 – May cause an allergic skin reaction.  
H304 – May be fatal if swallowed and enters airways.  
H336 – May cause drowsiness or dizziness.  
H226 – Flammable liquid and vapour.

### **Pictograms**



## Precautionary Statements

P233 – Keep container tightly closed.

P403 + P235 – Store in a well-ventilated place. Keep cool.

P405 – Store locked up.

P210 – Keep away from heat, sparks, open flames, and hot surfaces. — No smoking.

P240 – Ground/bond container and receiving equipment.

P241 – Use explosion-proof electrical, ventilating, lighting, and equipment.

P242 – Use only non-sparking tools.

P243 – Take precautionary measures against static discharge.

P370 + P378 – In case of fire: Use appropriate foam, dry chemical powder, carbon dioxide, sand or earth for extinction.

P271 – Use only outdoors or in a well-ventilated area.

P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 – Call a POISON CENTER or doctor/physician if you feel unwell.

P261 – Avoid breathing mist, vapours or spray.

P280 – Wear protective gloves, protective clothing, eye protection, and face protection.

P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.

P362 – Take off contaminated clothing and wash before reuse.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 – If eye irritation persists: Get medical advice/attention.

P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 – Do NOT induce vomiting.

P391 – Collect spillage.

P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

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## Section 03 - Composition / Information on Ingredients

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Chemical Name	CAS Number	Weight %	Unique Identifiers
Naptha (Petroleum), Heavy Alkylate	64741-65-7	62-77%	
d-Limonene	5989-27-5	20-35%	
Ingredients not classified as hazardous under the Hazardous Products Regulations		Balance	

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## Section 04 - First Aid Measures

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<b>Inhalation</b>	Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention.
<b>Skin Contact / Absorption</b>	Remove contaminated clothing. Rinse skin with lukewarm, gently flowing water and non-abrasive soap for 30 minutes. If irritation persists, seek medical attention. Completely decontaminate clothing, shoes and leather goods before re-use or discard.
<b>Eye Contact</b>	Immediately flush eye(s) with lukewarm, gently flowing water for at least 30 minutes, while forcibly holding the eyelid(s) open to ensure complete irrigation of the eye tissue. If irritation persists, seek medical attention.
<b>Ingestion</b>	Have victim rinse mouth thoroughly with water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Seek medical attention.
<b>Additional Information</b>	Not Available

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## Section 05 - Fire Fighting Measures

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<b>Suitable Extinguishing Media</b>	Alcohol-resistant foams, carbon dioxide and dry chemical.
<b>Unsuitable Extinguishing Media</b>	High volume water jet.

**Specific Hazards Arising From the Chemical** Carbon monoxide, carbon dioxide and other irritating gases and fumes.

**Special Protective Equipment and Precautions for Fire-Fighters** Wear NIOSH-approved self-contained breathing apparatus and protective gear.

**Further Information** Not Available

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## Section 06 - Accidental Release Measures

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**Personal Precautions / Protective Equipment / Emergency Procedures** Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.

**Environmental Precautions** Prevent material from entering sewers, waterway or confined spaces.

**Methods and Materials for Containment and Cleaning Up** Contain spillage with non-reactive absorbent and place in suitable, labelled containers for proper disposal.

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## Section 07 - Handling and Storage

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**Precautions for Safe Handling** This material is a COMBUSTIBLE LIQUID, a SKIN IRRITANT and SKIN SENSITIZER. Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

**Conditions for Safe Storage** Store in a cool, dry, well-ventilated area out of direct sunlight. Store away from all heat and ignition sources. Store away from incompatible materials. Storage area should be clearly identified, well-illuminated, clear of obstruction and accessible only to trained and authorized personnel.

**Incompatibilities** Strong oxidizers.

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## Section 08 - Exposure Controls and Personal Protection

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### Exposure Limit(s)

Component	Regulation	Type of Listing	Value
d-Limonene	WEELs	WEEL-TWA	30 ppm

### Engineering Control(s)

**Ventilation Requirements** Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.

**Other** Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

### Protective Equipment

**Eyes/Face** Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

**Hand Protection** Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

<b>Skin and Body Protection</b>	Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.  Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work.
<b>Respiratory Protection</b>	A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air purifying respirator may not provide adequate protection.
<b>Thermal Hazards</b>	Not Available

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## **Section 09 - Physical and Chemical Properties**

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### **Appearance**

<b>Physical State</b>	Liquid
<b>Colour</b>	Colourless
<b>Odour</b>	Citrus
<b>Odour Threshold</b>	Not Available

### **Property**

<b>pH</b>	Not Available
<b>Melting Point/Freezing Point</b>	Not Available
<b>Initial Boiling Point and Boiling Range</b>	Not Available
<b>Flash Point</b>	51°C
<b>Evaporation Rate</b>	Not Available
<b>Flammability</b>	Flammable liquid
<b>Upper Flammable Limit</b>	Not Available
<b>Lower Flammable Limit</b>	Not Available
<b>Vapour Pressure (mm Hg, 20°C)</b>	1.2
<b>Vapour Density (Air=1)</b>	Not Available
<b>Relative Density</b>	Not Available
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition Coefficient: n-octanol/water</b>	Not Available
<b>Auto-ignition Temperature</b>	Not Available

<b>Decomposition Temperature</b>	Not Available
<b>Viscosity</b>	Not Available
<b>Explosive Properties</b>	Not Available
<b>Specific Gravity (Water=1)</b>	0.782
<b>% Volatiles by Volume</b>	>90%
<b>Formula</b>	Mixture
<b>Molecular Weight</b>	Not Available

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## Section 10 - Stability and Reactivity

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<b>Reactivity</b>	Not Available
<b>Stability</b>	Normally stable. Limonenes are very sensitive to air or oxygen, reacting rapidly forming hydroperoxides, which can cause skin sensitization.
<b>Possibility of Hazardous Reactions</b>	d-Limonene polymerizes in the vapour phase at 175-550°C.
<b>Conditions to Avoid</b>	Open flames, sparks, electrostatic discharge, heat, elevated temperatures, and other ignitions sources, air, sunlight.
<b>Incompatible Materials</b>	Strong oxidizers.
<b>Hazardous Decomposition Products</b>	During a fire, carbon monoxide, carbon dioxide and unburned hydrocarbons.

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## Section 11 - Toxicological Information

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### Acute Toxicity Estimate

<b>Component</b>	<b>Oral LD<sub>50</sub></b>	<b>Dermal LD<sub>50</sub></b>	<b>Inhalation LC<sub>50</sub></b>
Organic Tar Remover	2,417 mg/kg	2,463 mg/kg	Not Available

This product has been classified in accordance with the Hazardous Products Regulations using ATE formula documented in the GHS standard.

### Chronic Toxicity – Carcinogenicity

<b>Component</b>	<b>IARC</b>
Organic Tar Remover	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

<b>Skin Corrosion/Irritation</b>	Moderate skin irritant.
<b>Ingestion</b>	May cause gastrointestinal upset and discomfort.
<b>Inhalation</b>	May cause depression of the central nervous system with symptoms of headache, dizziness, tiredness, nausea and vomiting.
<b>Serious Eye Damage/Irritation</b>	Can cause severe eye irritation.
<b>Respiratory or Skin Sensitization</b>	d-Limonene is considered a skin sensitizer.
<b>Germ Cell Mutagenicity</b>	Not Available

<b>Reproductive Toxicity</b>	Not Available
<b>STOT-Single Exposure</b>	May cause drowsiness and dizziness.
<b>STOT-Repeated Exposure</b>	Not Available
<b>Aspiration Hazard</b>	May enter the airways during ingestion or vomiting. Severe lung irritation, damage to the lung tissues, and death may result.
<b>Synergistic Materials</b>	Not Available

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## Section 12 – Ecological Information

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### Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
d-Limonene	Not Available	LC <sub>50</sub> (Fathead minnow, 96hr): 0.61-0.79mg/L	LC <sub>50</sub> (Daphnia magna, 48hr): 0.577mg/L
<b>Biodegradability</b>	d-limonene is readily biodegradable.		
<b>Bioaccumulation</b>	An estimated BCF of d-limonene suggests the potential for bioconcentration in aquatic organisms is high.		
<b>Mobility</b>	d-limonene is expected to have low mobility		
<b>Other Adverse Effects</b>	Not Available		

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## Section 13 – Disposal Considerations

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<b>Waste From Residues/Unused Products</b>	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
<b>Contaminated Packaging</b>	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

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## Section 14 – Transport Information

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<b>UN Number</b>	UN1993	
<b>UN Proper Shipping Name</b>	FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), heavy alkylate)	
<b>Transport Hazard Class(es)</b>	3	
<b>Packaging Group</b>	III	
<b>Environmental Hazards</b>	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.	
<b>Special Precautions</b>	Not Available	
<b>Transport in Bulk</b>	Not Available	
<b>Additional Information</b>	<u>Packing Group</u>	<u>Limited Quantity Index</u>
	I	0
	II	1 L
	III	5 L

### TDG

<b>Other</b>	Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.
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**TDG PRODUCT CLASSIFICATION:** This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

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## Section 15 – Regulatory Information

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**NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.**

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## Section 16 – Other Information

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**Preparation Date** January 11, 2016

**Note:** The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

### **Attention: Receiver of the chemical goods / SDS coordinator**

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution<sup>®</sup> initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

### **References:**

- 1) CHEMINFO
- 2) eChemPortal
- 3) TOXNET
- 4) Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA
- 7) PAN

### **Advance Chemicals Ltd. - Locations**

**Corporate Head Office: 1500 Quebec Avenue, Saskatoon, SK, S7K 1V7**

**Phone: 1(306) 664 – 2522**

**Fax: 1(888) 281-8109**

[www.cleartech.ca](http://www.cleartech.ca)

**24 Hour Emergency Number - All Locations – 1(306) 664-2522**