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## Section 01 - Identification

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<b>Product Identifier</b>	Crude Buster Liquid
<b>Other Means of Identification</b>	None
<b>Product Use and Restrictions on Use</b>	Highly effective degreaser that removes tar, asphalt and grease build ups.
<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>Acute Toxicity-Inhalation</b>	Category 4
<b>Skin Corrosion/Irritation</b>	Category 2
<b>Serious Eye Damage/Irritation</b>	Category 1
<b>Skin Sensitization</b>	Category 1B
<b>Aspiration Hazard</b>	Category 1
<b>STOT-Repeated Exposure</b>	Category 2
<b>Carcinogenicity</b>	Category 2

### Physical Hazards

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

#### **Hazards Statements**

H332 – Harmful if inhaled.  
H315 – Causes skin irritation.  
H318 – Causes serious eye damage.  
H317 – May cause an allergic skin reaction.  
H304 – May be fatal if swallowed and enters airways.  
H373 – May cause damage to the thymus, liver and bone marrow through prolonged or repeated exposure.  
H351 – Suspected of causing cancer.  
H226 – Flammable liquid and vapour.

## Pictograms



## Precautionary Statements

P405 – Store locked up.

P201 – Obtain special instructions before use.

P202 – Do not handle until all safety precautions have been read and understood.

P403 + P233 – Store in a well-ventilated place. Keep container tightly closed.

P308 + P313 – IF exposed or concerned: Get medical advice/attention.

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

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

P223 – Keep away from any possible contact with water, because of violent reaction and possible flash fire.

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.

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

P260 – Do not breathe mist, vapours or spray.

P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 – Immediately call a POISON CENTER or doctor/physician.

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

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.

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

P331 – Do NOT induce vomiting.

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
Diesel Fuel	68334-30-5	40-55%	
D-limonene	5989-27-5	22-38%	
Naptha, Heavy Alkylate	64741-65-7	1-15%	
Glycol Ether EB	111-76-2	1-15%	
Nonylphenol Polyethylene Glycol Ether	127087-87-0	1-15%	

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## Section 04 - First Aid Measures

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### Inhalation

Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention.

### Skin Contact / Absorption

Remove contaminated clothing. Rinse skin with lukewarm, gently flowing water and non-abrasive soap for 30 minutes. If irritation occurs, seek medical attention. Completely decontaminated clothing, shoes and leather goods before re-use or discard.

### Eye Contact

Immediately flush eye(s) with lukewarm, gently flowing water for 30 minutes, while forcibly holding the eyelid(s) open to ensure complete irrigation of the eye tissue. If a contact lens is present, remove only if easy to do so. Seek immediate medical attention.

**Ingestion** Never give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. Have victim rinse mouth with water. Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Have victim rinse mouth again. Seek immediate medical attention.

**Additional Information** NOTE: This product contains an ingredient that is suspected of causing cancer. Take proper precautions to ensure your own safety before assisting others.

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## Section 05 - Fire Fighting Measures

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**Suitable Extinguishing Media** Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog. Firefighting foams are recommended for most flammable/combustible liquid fires.

**Unsuitable Extinguishing Media** Not Available

**Specific Hazards Arising From the Chemical** Carbon monoxide, carbon dioxide, oxides of Sulphur and other irritating gases may form during a fire.

**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 product from entering sewers, waterways or confined spaces.

**Methods and Materials for Containment and Cleaning Up** SMALL SPILLS: Clean up spill with non-reactive absorbent material and place in suitable, labelled containers for proper disposal. Contaminated absorbent material may pose the same hazards as the spilled product.  
LARGE SPILLS: Contact fire and emergency services and supplier for advice.

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## Section 07 - Handling and Storage

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**Precautions for Safe Handling** 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.

**Incompatibilities** Acids, bases and strong oxidizing agents.

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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
Glycol Ether EB	ACGIH	TLV-TWA	20 ppm
	OSHA	PEL-TWA	25 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 safety goggles and/or a face shield should be worn while this product is being handled.

**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.

**Skin and Body Protection** Body suits, 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.

**Respiratory Protection** 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.

**Thermal Hazards** Not Available

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

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### **Appearance**

**Physical State** Liquid

**Colour** Red

**Odour** Citrus

**Odour Threshold** Not Available

### **Property**

**pH** Not Available

**Melting Point/Freezing Point** Not Available

**Initial Boiling Point and Boiling Range** Not Available

**Flash Point** 51°C

**Evaporation Rate** Not Available

**Flammability** Flammable liquid

**Upper Flammable Limit** Not Available

<b>Lower Flammable Limit</b>	Not Available
<b>Vapour Pressure (mm Hg, 20°C)</b>	0.4
<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>	0.084
<b>% Volatiles by Volume</b>	Not Available
<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.
<b>Possibility of Hazardous Reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to Avoid</b>	Heat, sparks, open flames and other ignition sources.
<b>Incompatible Materials</b>	Acids, bases and strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide, Sulphur oxides and other irritating gases.

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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>
Crude Buster Liquid	4,669 mg/L	2,857 mg/L	1 mg/L

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>
Diesel	Classified as a possible carcinogen.

<b>Skin Corrosion/Irritation</b>	Moderate skin irritant.
<b>Ingestion</b>	May cause gastrointestinal discomfort and diarrhea.
<b>Inhalation</b>	Inhalation of mists or vapours may cause depression of the central nervous system with symptoms of headaches, dizziness and nausea.
<b>Serious Eye Damage/Irritation</b>	Can cause serious eye damage.
<b>Respiratory or Skin Sensitization</b>	d-Limonene may cause skin sensitization.
<b>Germ Cell Mutagenicity</b>	Not Available
<b>Reproductive Toxicity</b>	Not Available
<b>STOT-Single Exposure</b>	Not Available
<b>STOT-Repeated Exposure</b>	May cause damage to the thymus, liver and bone marrow through prolonged or repeated exposure.
<b>Aspiration Hazard</b>	d-Limonene may enter the airway during ingestion or vomiting. Can cause severe lung irritation, damage to the lung tissues and even death.
<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
Glycol Ether EB	Not Available	LC <sub>50</sub> (Leuciscus idu melanotus, 48hr): 186 mg/L	LC <sub>50</sub> (Daphnia magna, 24hr): 1,720 mg/L
Nonylphenol Polyethylene Glycol Ether	Not Available	LC <sub>50</sub> (Pimephales promelas, 96hr): 6.2 mg/L	EC <sub>50</sub> (Daphnia magna, 48hr): 9.3-21.4 mg/L

**Biodegradability** Glycol ether EB and d-limonene are readily biodegradable.

**Bioaccumulation** Not Available

**Mobility** Glycol ether EB is expected to have high mobility while d-limonene is expected to have low mobility.

**Other Adverse Effects** Not Available

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## Section 13 – Disposal Considerations

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

**Contaminated Packaging** 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. (Diesel)
<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

**Additional Information**Packing GroupLimited Quantity Index

I	0
II	1 L
III	5 L

**TDG****Other**

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.

**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**

December 18, 2015

**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**

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