Advance Chemicals Ltd.

Safety Data Sheet

Section 01 - Identification

Product Identifier	Lazer Strip
Other Means of Identification	None
Product Use and Restrictions on Use	Wet stripping system for floor finishes.
Initial Supplier Identifier	Advance Chemicals Ltd. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
Prepared By	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
24-Hour Emergency Phone	Phone: 1 (306) 664 – 2522

Section 02 - Hazard Identification

GHS-Classification

Acute Toxicity-Dermal	Category 4
Skin Corrosion/Irritation	Category 1B
Serious Eye Damage/Irritation	Category 1
STOT-Single Exposure	Category 3

Physical Hazards

No known physical hazards.

Danger

Hazards Statements
H312 – Harmful in contact with skin.
H314 – Causes severe skin burns and eye damage.
H335 – May cause respiratory irritation.

Pictograms

Precautionary Statements
P403 + P233 – Store in a well-ventilated place. Keep container tightly closed.
P405 – Store locked up.
P271 – Use only outdoors or in a well-ventilated area.
P260 – Do not breathe mist, vapours or spray.
P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P301 +P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P280 – Wear protective gloves, protective clothing, eye protection, and face protection.
P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 – Wash contaminated clothing before reuse.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 – Immediately call a POISON CENTER or doctor/physician.
P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Glycol Ether EB	111-76-2	10-25%	
Monoethanolomine	141-43-5	1-15%	
Water and/or ingredients not classified as hazardous under the Hazardous Products Regulations		Balance	

Section 04 - First Aid Measures

Inhalation
If symptoms are experienced, 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 for 30 minutes. Seek immediate medical attention. Completely decontaminate 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
Not Available

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media
Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog. Special multipurpose, alcohol resistant fire-fighting foams are recommended for use on all water soluble liquids.

Unsuitable Extinguishing Media
Not Available

Specific Hazards Arising From the Chemical
Carbon monoxide, carbon dioxide and other irritating fumes may form upon decomposition.

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

Further Information	Not Available

Section 06 - Accidental Release Measures

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.
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 materials and place in suitable, labelled containers for proper disposal. Flush area with water. LARGE SPILLS: Contact fire and emergency services and supplier for advice.

Section 07 - Handling and Storage

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 and away from open flames, sparks, heat and other ignition sources.
Incompatibilities	Strong oxidizing agents, perchloric acid, bases, and strong acids.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Glycol Ether EB	ACGIH	TLV-TWA	20 ppm
	OSHA	PEL-TWA	25 ppm
	OSHA	PEL-T-TWA	50 ppm
Monoethanolamine	ACGIH	TLV-TWA	3 ppm
	ACGIH	TLV-STEL	6 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 product is being handled. Contact lenses should not be worn as 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.
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	NIOSH RECOMMENDATIONS FOR 2-BUTOXYETHANOL CONCENTRATIONS IN AIR: Up to 50 ppm: (APF=10) Any chemical cartridge respirator with organic vapour cartridge(s); or any supplier-air respirator. Up to 125 ppm: (APF-25) Any supplied-air respirator operated in a continuous-flow mode; or any powered, air-purifying respirator with organic vapor cartridge(s0. Up to 250 ppm: (APF=50) Any supplied-air respirator operated in a continuous –flow mode; or any powered, air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back- mounted organic vapour canister; or any powered, air-purifying respiratory with a tight-fitting facepiece and organic vapor cartridge(s); or any self-contained breathing apparatus with a full facepiece; or any supplied-air respirator with a full facepiece. Up to 700 ppm: (APF=2,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Emergency or planned entry into unknown concentrations or IDLH conditions: (APF=10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode; or any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus. Escape: (APF=50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back- mounted organic vapour canister; or any appropriate escape-type, self-contained breathing apparatus. NOTE: The IDLH concentration for 2-butoxyethanol is 700 ppm.
Thermal Hazards	Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State	Liquid
Colour	Bright yellow
Odour	Lemon
Odour Threshold	Not Available

Property

pH	11.8
Melting Point/Freezing Point	Not Available
Initial Boiling Point and Boiling Range	Not Available
Flash Point	Not Available
Evaporation Rate	Not Available
Flammability	Not Available
Upper Flammable Limit	Not Available

Lower Flammable Limit	Not Available
Vapour Pressure (mm Hg, 20°C)	Not Available
Vapour Density (Air=1)	Not Available
Relative Density	Not Available
Solubility(ies)	Soluble in water
Partition Coefficient: n-octanol/water	Not Available
Auto-ignition Temperature	Not Available
Decomposition Temperature	Not Available
Viscosity	Not Available
Explosive Properties	Not Available
Specific Gravity (Water=1)	0.979
% Volatiles by Volume	Not Available
Formula	Mixture
Molecular Weight	Not Available

Section 10 - Stability and Reactivity

Reactivity	Not Available
Stability	Normally stable.
Possibility of Hazardous Reactions	None reported.
Conditions to Avoid	High temperatures, sparks, open flames and other ignition sources.
Incompatible Materials	Strong oxidizing agents, perchloric acid, bases, and strong acids.
Hazardous Decomposition Products	May form peroxides on prolonged exposure to air.

Section 11 - Toxicological Information

Acute Toxicity Estimate

Component	Oral LD_{50}	Dermal LD_{50}	Inhalation LC_{50}
Lazer Strip	2,362 nmg/kg	1,117 mg/kg	9,669 mg/m^3

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

Chronic Toxicity – Carcinogenicity

Component	IARC
Lazer Strip	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.

Skin Corrosion/Irritation	Corrosive. Capable of producing severe burns, blister, ulcers and permanent scarring.
Ingestion	Can cause burns to the mouth, tongue, esophagus and stomach. Ingestion of large amounts may cause symptoms of central nervous system depression.
Inhalation	Inhalation of mists can cause severe irritation to the respiratory tract.
Serious Eye Damage/Irritation	Corrosive. Capable of producing serious eye burns and permanent damage, including blindness.
Respiratory or Skin Sensitization	Not Available
Germ Cell Mutagenicity	Not Available
Reproductive Toxicity	Not Available
STOT-Single Exposure	Not Available
STOT-Repeated Exposure	Not Available
Aspiration Hazard	Not Available
Synergistic Materials	Not Available

Section 12 – Ecological Information

Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Glycol Ether EB	Not Available	LC_{50}(Leuciscus idus melanotus, 48hr): 186 mg/L	EC_{50}(Daphnia magna, 48hr): 1,000 mg/L
Monoethanolamine	EC_{50}(Green algae, 24hr): 70 mg/L	LC_{50}(Oncorhynchus mykiss, 96hr): 150 mg/L	LC_{50}(Daphnia magna, 24 hr): 140 mg/L

Biodegradability	Glycol Ether EB and monoethanolamine are expected to biodegrade rapidly.
Bioaccumulation	Monoethanolamine is not expected to bioaccumulate.
Mobility	Glycol Ether EB and monoethanolamine have high mobility in the soil.
Other Adverse Effects	Not Available

Section 13 – Disposal Considerations

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.

Section 14 – Transport Information

UN Number	UN3267
UN Proper Shipping Name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Monoethanolamine)
Transport Hazard Class(es)	8
Packaging Group	II

Environmental Hazards Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special Precautions Not Available

Transport in Bulk Not Available

Additional Information

Packing Group	Limited Quantity Index
I	0
II	1 L
III	5 L

TDG

Other Secure containers (full and/or empty) with suitable hold down devises 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.

Section 15 – Regulatory Information

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.

Section 16 – Other Information

Preparation Date December 30, 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® 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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