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**SAFETY DATA SHEET****SECTION 1. IDENTIFICATION****Product identifier used on the label**

: LensBoost Headlight Restoration Wipes

**Name, address:****Cerpak Solutions**Ontario Telephone:  
(905)709-0901**24 Hr. Emergency Tel #:** In case of transportation emergencies: (613) 996-6666 (CANUTEC)**SECTION 2. HAZARDS IDENTIFICATION****Classification of the chemical**

Milky clear liquid, Amine odor.

*Most important hazards:*Irritating to eyes. May cause sensitization by skin contact. For further information, please refer to section 11 of the SDS.  
Toxic to aquatic life with long lasting effects. Avoid release to the environment. See Section 12 for more environmental information.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:

Eye damage/irritation - Category 2A  
Skin sensitization - Category 1**Label elements***Hazard pictogram(s)**Signal Word*  
WARNING!

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*Hazard statement(s)*

Causes serious eye irritation.  
May cause an allergic skin reaction.

*Precautionary statement(s)*

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands and face thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local regulation.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Dipropylene glycol methyl ether	1-(2-Methoxypropoxy)-2-propanol DPGME	34590-94-8	1.0 - 5.0
Triethylamine	N,N-Diethylethanamine TEA	121-44-8	0.1 - < 1.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

### SECTION 4. FIRST-AID MEASURES

**Description of first aid measures**

*Ingestion Inhalation:* Do NOT induce vomiting. Never give anything by mouth if victim is unconscious. IF exposed or concerned: Get Medical advice/attention.

: If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. IF exposed or concerned: Get medical advice/attention.

*Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

*Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

**Indication of any immediate medical attention and special treatment needed**

: Provide general supportive measures and treat symptomatically.

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**SAFETY DATA SHEET****SECTION 5. FIRE-FIGHTING MEASURES**

*Extinguishing media:* Use an extinguishing agent suitable for the surrounding fire.

*Unsuitable extinguishing media:* Do not use water jet, as this may spread burning material.

**Special hazards arising from the substance or mixture / Conditions of flammability**

: Not considered flammable. However, may burn if exposed to extreme heat and flame. After prolonged storage, may release explosive peroxides in the presence of air. Rate of peroxide formation is not known. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Flammability classification (OSHA 29 CFR 1910.106)  
: Not classified as flammable.

**Special protective equipment and precautions for firefighters***Protective equipment for fire-fighters*

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

*Special fire-fighting procedures*

: Fight fire with normal precautions from a reasonable distance. Move containers from fire area if safe to do so. Use water to cool fire- exposed containers. Do not allow run-off from firefighting to enter drains or water courses. Dike for water control.

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**SAFETY DATA SHEET****SECTION 6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

**Methods and material for containment and cleaning up**

: Ventilate the area. Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Keep in properly labelled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

**Special spill response procedures**

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

US CERCLA Reportable quantity (RQ): Triethylamine (5000 lbs / 2270 kg)

In Canada: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

**SECTION 7. HANDLING AND STORAGE****Precautions for safe handling**

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.  
Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.  
Use only with adequate ventilation. Wear protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapor) and can be dangerous. Contaminated work clothing must not be allowed out of the workplace.

**Conditions for safe storage** : Store in a cool, dry, well ventilated area. Store locked up. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

**Incompatible materials** : Oxidizing agents; Strong acids; Strong bases; Reactive metals; Epoxides; Nitrosating agents; Halogenating agents

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**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
	Dipropylene glycol methyl ether	100 ppm (skin)	150 ppm (skin)	100 ppm (600 mg/m <sup>3</sup> ) (skin)
Triethylamine	0.5 ppm (skin)	1 ppm (skin)	25 ppm (100 mg/m <sup>3</sup> )	N/Av

**Exposure controls**

**Ventilation and engineering measures**

: Ensure adequate ventilation, especially in confined areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. In case of insufficient ventilation wear suitable respiratory equipment.

**Respiratory protection**

: Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134).

**Skin protection**

: User can wear protective gloves/clothing.

**Eye / face protection**

: Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.

**Other protective equipment**

: An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

**General hygiene considerations**

: Avoid contact with skin, eyes and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Contaminated work clothing must not be allowed out of the workplace.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : Milky liquid.

**Odor** : Amine odor.

**Odor threshold** : N/Av

**pH** : 8.0 - 8.6

**Melting/Freezing point** : N/Av

**Initial boiling point and boiling range**

: > 100°C (212°F) (based on ingredients)

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**SAFETY DATA SHEET****Flash point** : > 100°C (212°F)**Flashpoint (Method)** : Seta closed cup**Evaporation rate (BuAe = 1)** : N/Av**Flammability (solid, gas)** : Not applicable.**Lower flammable limit (% by vol.)**

: N/Av

**Upper flammable limit (% by vol.)**

: N/Av

**Oxidizing properties** : None known.**Explosive properties** : Not explosive**Vapor pressure** : N/Av**Vapor density** : N/Av**Relative density / Specific gravity**

: 1.02

**Solubility in water** : Soluble.**Other solubility(ies)** : N/Av**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution**

: N/Av

**Auto-ignition temperature** : N/Av**Decomposition temperature** : N/Av**Viscosity** : 100-500 cP**Volatiles (% by weight)** : N/Av**Volatile organic Compounds (VOC's)**

: 18.2 g/L (ASTM D3960-05)

**Absolute pressure of container**

: N/Av

**Flame projection length** : N/Av**Other physical/chemical comments**

: No additional information.

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**SECTION 10. STABILITY AND REACTIVITY****Reactivity** : Not normally reactive.**Chemical stability** : Stable under the recommended storage and handling conditions prescribed.**Possibility of hazardous reactions** : None reasonably foreseeable. Hazardous polymerization does not occur.**Conditions to avoid** : Avoid heat and open flame. Keep away from incompatibles.**Incompatible materials** : Oxidizing agents; Strong acids; Strong bases; Reactive metals; Epoxides; Nitrosating agents; Halogenating agents**Hazardous decomposition products** : Peroxides.  
Refer also to hazardous combustion products, Section 5.**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure:****Routes of entry inhalation** : YES**Routes of entry skin & eye** : YES

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**Routes of entry Ingestion** : YES

**Routes of exposure skin absorption**  
: NO

**Potential Health Effects:**

**Signs and symptoms of short-term (acute) exposure**

*Sign and symptoms Inhalation*

: Inhalation of mists or sprays may mildly irritate the upper respiratory tract and cause coughing or sneezing.

*Sign and symptoms ingestion*

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).  
:

*Sign and symptoms skin*

: May cause mild skin irritation. Exposure may cause temporary irritation, redness or discomfort.

*Sign and symptomseyes*

: Causes irritation. Symptoms may include a burning sensation, pain, watering, and/or changes in vision (blurred vision).

**Potential Chronic Health Effects**

: Prolonged or repeated skin contact may cause drying and irritation.

**Mutagenicity**

: Not expected to be mutagenic in humans. Contains no ingredient above reportable levels that is known to cause mutations in reproductive (germ) and/or non-reproductive cells (somatic).

**Reproductive effects & Teratogenicity**

: This product is not expected to cause reproductive or developmental effects.

**Sensitization to material**

: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:  
Skin sensitization - Category 1. May cause an allergic skin reaction. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema. No data available to indicate product or components may be respiratory sensitizers.

**Specific target organ effects**

: According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through single or repeated exposures.

**Medical conditions aggravated by overexposure**

: Pre-existing skin, eye and respiratory disorders.

**Synergistic materials**

: None known or reported by the manufacturer.



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**Toxicological data** : Not classified for acute toxicity based on available data. No data is available on the product itself. The calculated ATE values for this mixture are:  
 ATE oral = 33,748 mg/kg  
 ATE dermal = 62,635 mg/kg  
 ATE inhalation (dust/mist) = 175.7 mg/L/4H

See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC<sub>50</sub> (4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Dipropylene glycol methyl ether	> 3 mg/L (mist) (No mortality)	5120 mg/kg	9480 mg/kg
Triethylamine	10.9 mg/L (vapor)	730 mg/kg	580 mg/kg

**Other important toxicological hazards**

: None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See the following tables for individual ingredient ecotoxicity data.

**Ecotoxicity data:**

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC<sub>50</sub> / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Dipropylene glycol methyl ether	34590-94-8	> 10,000 mg/L (Fathead minnow)	N/Av	None.
Triethylamine	121-44-8	36 mg/L (Rainbow trout)	N/Av	None.

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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Dipropylene glycol methyl ether	34590-94-8	1919 mg/L (Daphnia magna)	≥ 0.5 mg/L	None.
Triethylamine	121-44-8	17 mg/L (Ceriodaphnia dubia)	11 mg/L (Daphnia magna)	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Dipropylene glycol methyl ether	34590-94-8	> 969 mg/L/72hr (Green algae)	969 mg/L/72hr	None.
Triethylamine	121-44-8	8 mg/L/72hr (Green algae)	1.1 mg/L/72hr	None.

**Persistence and degradability**

: No data is available on the product itself.

**Bioaccumulation potential**

: No data is available on the product itself. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Dipropylene glycol methyl ether (CAS 34590-94-8)	0.0061	< 1
Triethylamine (CAS 121-44-8)	1.45	< 0.5 - 5.0

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**Mobility in soil** : No data is available on the product itself.

**Other Adverse Environmental effects**

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.


### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapor) and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.

**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	Not regulated	None	
<b>49CFR/DOT Additional information</b>	Not regulated unless shipping internationally by sea or air. Refer to IMDG or IATA information for international sea or air shipments, as appropriate.				

**Special precautions for user** : Appropriate advice on safety must accompany the package. Avoid release to the environment.

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**Environmental hazards** : This mixture meets the criteria for an environmentally hazardous material according to the IMDG Code. See Section 12 for more environmental information.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

: Not applicable.

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Dipropylene glycol methyl ether	34590-94-8	Yes	None.	None.	No	N/Ap
Triethylamine	121-44-8	Yes	5000 lb/ 2270 kg	None.	Yes	1%

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Health hazards (Eye irritation; Skin sensitization)

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

**US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Dipropylene glycol methyl ether	34590-94-8	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Triethylamine	121-44-8	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

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**Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on or are exempt from the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI:  
Triethylamine (Part 1, Group A Substance)

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

**International Information:**

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECs</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>New Zealand IOC</u>
Dipropylene glycol methyl ether	34590-94-8	252-104-2	Present	Present	(7)-97; (2)-426	KE-12230	Present	HSR001402
Triethylamine	121-44-8	204-469-4	Present	Present	(2)-141	KE-10472	Present	HSR001228

### SECTION 16. OTHER INFORMATION

**Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists  
 AICS: Australian Inventory of Chemical Substances  
 ATE: Acute Toxicity Estimate  
 CAS: Chemical Abstract Services  
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
 CFR: Code of Federal Regulations  
 CNS: Central Nervous System  
 DOT: Department of Transportation  
 EINECS: European Inventory of Existing Commercial chemical Substances  
 ENCS: Existing and New Chemical Substances

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EPA: Environmental Protection Agency  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IECSC: Inventory of Existing Chemical Substances  
Inh: Inhalation  
IOC: Inventory of Chemicals  
KECI: Korean Existing Chemicals Inventory  
KECL: Korean Existing Chemicals List  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average

**References**

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2017.  
2. International Agency for Research on Cancer Monographs, searched 2019.  
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).  
4. Material Safety Data Sheets from manufacturer.  
5. US EPA Title III List of Lists - March 2015 version.  
6. California Proposition 65 List - December 29, 2017 version.  
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

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**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

**SAFETY DATA SHEET****DISCLAIMER**

This Safety Data Sheet was prepared using information provided by the supplier and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. Cerpak Solutions expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

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