



1. Identification

Product identifier	LAZER
Product code	FLLAZER20LT; FLLAZER205LT
Other means of identification	None.
Recommended use of the chemical and restrictions on use	Lazer fluid captor and rust protection. Not recommended for any other use not detailed on product data sheet or label.
Manufacturer	<p>AEROCHEM Inc. 5977 Trans Canada Highway Pointe-Claire, QC H9R 1C1 Canada Tel. 514-630-2800 General Information: 1-888-592-5837 Fax 514-630-2828 www.aerochem.ca</p>
Emergency phone number	<p>Quebec Poison Center: 1-800-463-5060 (toll free in QC) Ontario and Manitoba Poison Centres: 1-800-268-9017 or 419-813-5900 BC Drug and Poison Information Centre: 1-800-567-8911 (toll free in BC) or contact your local poison control centre in the state/province or territory where you live. INFOTRAC® 1-800-535-5053. International call collect: 1-352-323-3500 24 hours/day, 7 days/week.</p>

2. Hazard identification

Summary	Combustible liquid. Keep away from heat, sparks and open flame. Avoid contact with skin, eyes and clothing. Do not breathe vapours, mists or aerosols. Do not ingest. If ingested consult physician immediately and show this Safety Data Sheet. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved.
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WHMIS 2015/OSHA HCS 2012/GHS

 	<p>Flammable liquids (Category 4) Acute toxicity, inhalation (Category 4) Specific target organ toxicity, single exposure, Narcotic effects (Category 3) Aspiration hazard (Category 1)</p> <p>Other hazards which do not result in classification : Acute hazard to the aquatic environment (Category 1). Long-term hazard to the aquatic environment (Category 1).</p>
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DANGER

H227: Combustible liquid
H304: May be fatal if swallowed and enters airways
H332: Harmful if inhaled
H336: May cause drowsiness or dizziness
H410: Very toxic to aquatic life with long lasting effects
P210: Keep away from heat, sparks, open flames and other ignition sources. No smoking.
P261: Avoid breathing vapours, mist and spray.

P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves, protective clothing and eye protection.
 P301+310+331: IF SWALLOWED: Immediately call a POISON CENTER or a physician. Do NOT induce vomiting.
 P304+340: 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.
 P370+378: In case of fire: Use suitable extinguishing medium to extinguish.
 P391: Collect spillage.
 P403+233: Store in a well ventilated place. Keep container tightly closed.
 P405: Store locked up.
 P501: Dispose of contents and container to an approved waste disposal plant.

3. Composition/information on ingredients

Common name	CAS	Weight % content
Naphtha (petroleum), hydrotreated heavy (C6-C13)	64742-48-9	81 - 89 %
Alkanes (C14-17), chloro	61788-76-9	4.5 - 7 %
Mineral oil mixture	Mineral oil	4 - 6 %
Lard, oil	8016-28-2	2 - 4 %
Oils, animal, mixed with vegetable oils, sulfurized	68991-19-5	0.5 - 2 %

Note: This product contains a mixture of highly refined mineral oil (CAS no 64741-88-4, 64742-54-7 and 64742-01-4) containing no polycyclic aromatic hydrocarbon (PAH). P.S. for CAS no: 61788-76-9: Chlorinated paraffins are a group of compounds varying in molecular structure by carbon chain length and degree of chlorination. The chlorinated paraffin materials used in this product are medium-chain, C14-C17, containing <1% of C10-C13, and with a degree of chlorination of 40% to 60%.

4. First-aid measures

Inhalation	Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen by trained personnel. If a problem develops or persists, seek medical attention.
Skin contact	Wash skin with warm water and mild soap for at least 15 minutes. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention.
Eye contact	IMMEDIATELY flush with plenty of water. Remove contact lenses. Flush with water for at least 15 minutes. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention.
Ingestion	DO NOT induce vomiting, unless recommended by medical personnel. If victim is conscious wash out mouth with water. Never give anything by mouth if victim is unconscious or convulsing. If spontaneous vomiting occurs, keep head below hip level to prevent aspiration into the lungs. Seek medical attention or contact a Poison Centre immediately.
Other	No information available.
Symptoms	May cause redness and slight irritation of the eyes. May cause dry skin and slight irritation. Inhalation of vapours may cause central nervous system depression such as drowsiness, headache, dizziness, vertigo, nausea and fatigue. Harmful or fatal if inhaled into the lungs (ingestion/vomiting). Signs of lung involvement include increased respiratory rate, increased heart rate, and a bluish discoloration of the skin. Coughing, choking and gagging are often noted at the time of aspiration.
Notes to the physician	Aspiration hazard for the lungs (ingestion/vomiting). Can enter lungs and cause damage. If gastric lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire-fighting measures

Suitable extinguishing media	Dry chemicals, water spray, chemical foam, carbon dioxide (CO ₂). Do not use a heavy water jet.
Specific hazards arising from the chemical	Flammable liquid and vapours. May be ignited by heat, sparks, flame or static electricity. Vapours are heavier than air and may travel to an ignition source distant from the material handling point. Contact with strong oxidizers may cause fire.
Special protective equipment	Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.
Special protective actions for fire-fighters	Use water spray to cool fire-exposed containers. Water spray can reduce the intensity of the flames. However, the water jets can spread the fire. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

6. Accidental release measures


Personal precautions, protective equipment and emergency procedures	Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.
Environmental precautions	Prevent entry in sewer and other enclosed area. For a large spill, consult the Department of Environment or the relevant authorities.
Methods and materials for containment and cleaning up	Ventilate the area well. Remove sources of ignition. Stop leak, if it's possible to do so without risk. Absorb with inert material (soil, sand, vermiculite) and place in an appropriate waste disposal clearly identified. Use non-sparking and antistatic tools. Finish cleaning the contaminated surface by rinsing with soapy water. For large spills, dike for later disposal. Dispose via a licensed waste disposal contractor.

7. Handling and storage

Precautions for safe handling	Keep away from heat, sparks and open flame. Avoid all sources of ignition. Use non-sparking and antistatic tools. Ground/bond all containers when transferring large quantities (5 gallons US or 20 L and more). Use only in well ventilated area. Do not breathe vapours, mists or aerosols. Avoid contact with skin, eyes and clothing. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. Keep only the quantities necessary for the work being performed in the work area. Keep containers tightly closed when not in use. Do not eat, do not drink and do not smoke during use. Wash hands, forearms and face thoroughly after handling this compound and before eating, drinking or using toiletries. Remove contaminated clothing and wash before reuse.
Conditions for safe storage, including any incompatibilities	Storage and handling should follow the NFPA 30 Flammable and/or Combustible Liquids Code and the National Fire Code of Canada (NFCC). Ground or bond large containers. Store tightly closed and in properly labelled containers in a cool, dry and well ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store away from oxidizing materials and incompatible materials (see section 10). Keep away from direct sunlight and heat.
Storage temperature	15 to 30°C (59 to 86°F)

8. Exposure controls/personal protection

Immediately Dangerous to Life or Health	No IDLH value is reported.
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Naphtha (petroleum), hydrotreated heavy (C6-C13)	TWA (8h)	Mist	5 mg/m ³	ACGIH , RSST
			175 ppm	Other
Mineral oil mixture	TWA (8h)	Mist	5 mg/m ³	ACGIH
Oils, animal, mixed with vegetable oils, sulfurized	TWA (8h)	Mist	5 mg/m ³	ACGIH
		Mist	10 mg/m ³	BC , ON, RSST
Appropriate engineering controls	Provide sufficient mechanical ventilation (general or local exhaust) to keep the airborne concentrations of vapours, mists, aerosols or dust below their respective occupational exposure limits.			
Individual protection measures				
Eye	If there is a risk of contact with eyes, wear chemical splash goggles.			
Hands	Wear nitrile or neoprene gloves. Disposable nitrile gloves can also be used, but discard after single use. Before using, user should confirm impermeability. Discard gloves with tears, pinholes, or signs of wear. Gloves must only be worn on clean hands. Wash gloves with water before removing them. After using gloves, hands should be washed and dried thoroughly.			
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code. Wear synthetic or a neoprene apron, if necessary, to prevent repeated or prolonged contact with skin.			
Respiratory	Respiratory protection is not required for normal use. Where the conditions in the workplace require a respirator, it is necessary to follow a respiratory protection program. Moreover, respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations and standard 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) and approved by NIOSH/MSHA. In case of insufficient ventilation or in confined or enclosed space and for an assigned protection factor (APF) up to 10 times the exposure limit, wear a half mask respirator with organic vapour cartridges fitted with P100 filters. For an APF until maximum 100 times of exposure limit, wear a full face respirator mask with organic vapour cartridges and P100 filters.			
Feet	Wear rubber boots to clean up a spill.			
 Goggles Nitrile gloves				

9. Physical and chemical properties

Physical state	Liquid	Flammability	Combustible
Colour	Colourless	Flammability limits	1.1 to 6.1%
Odour	Odourless	Flash point	64°C (147.2°F)
Odour threshold	N/Av.	Auto-ignition temperature	225°C (437°F)
pH	N/Av.	Sensibility to electrostatic charges	Yes
Melting point	N/Av.	Sensibility to sparks and/or friction	No
Freezing point	N/Av.	Vapour density	5.65 (Air = 1)
Boiling point	175 to 202°C (347 to 395.6°F)	Relative density	0.75 to 0.76 kg/L (Water = 1)
Solubility	Insoluble in water.	Partition coefficient n-octanol/water	2.1 to 6.5
Evaporation rate	< Butyl Acetate		N/Av.

		Decomposition temperature	
Vapour pressure	0.052kPa (0.4 mm Hg) @ 20°C (68°F)	Viscosity	3 cSt @ 40°C (104°F)
Percent Volatile	100%	Molecular mass	N/Ap.
N/Av.: Not Available N/Ap.: Not Applicable Und.: Undetermined N/E: Not Established			

10. Stability and reactivity

Reactivity	No information available for this product.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions (including polymerizations)	A dangerous reaction will not occur.
Conditions to avoid	Avoid heat, flame and sparks. Avoid contact with incompatible materials.
Incompatible materials	Strong bases, strong acids, strong oxidizing agents (e.g. nitric acid, perchloric acid, peroxides, nitrates, chlorates and perchlorates).
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information


Numerical measures of toxicity	<p>Naphtha (petroleum), hydrotreated heavy (C6-C13)</p> <p>Ingestion >10000 mg/kg Rat LD50</p> <p>Inhalation >8.5 mg/l/4h Rat LC50</p> <p>Skin >3200 mg/kg Rabbit LD50</p> <p>Alkanes (C14-17), chloro</p> <p>Ingestion >21.5 ml/kg Rat LD50</p> <p>Skin >10 ml/kg Rat LD50</p> <p>Mineral oil mixture</p> <p>Ingestion >5000 mg/kg Rat LD50</p> <p>Skin >5000 mg/kg Rabbit LD50</p> <p>Lard, oil</p> <p>Ingestion >2000 mg/kg Rat LD50</p> <p>Skin >2000 mg/kg Rabbit LD50</p> <p>Oils, animal, mixed with vegetable oils, sulfurized</p> <p>Ingestion >5000 mg/kg Rat LD50</p> <p>Skin >2000 mg/kg Rabbit LD50</p>
Likely routes of exposure	Skin, eyes, inhalation, ingestion.
Delayed, immediate and chronic effects	<p>Eye contact May cause redness and slight irritation of the eyes. Naphtha (petroleum), hydrotreated heavy (CAS no 64742-48-9) is non-irritating to the eye (OECD 405). Eye Irritation/Corrosion, Rabbit (OECD TG 405): tests performed with each ingredient of this mixture gave not irritating to slightly irritating results.</p> <p>Skin contact May cause redness and slight irritation of the skin. Prolonged or repeated exposure can cause skin drying, defatting and dermatitis. Naphtha (petroleum), hydrotreated heavy (CAS no 64742-48-9) is a low skin irritant (human, OECD 431). Skin Irritation/Corrosion, Rabbit (OECD 404) : tests performed with each ingredient of this mixture gave not irritating to slightly irritating results.</p> <p>Inhalation Harmful if inhaled. Inhalation of vapours may cause central nervous system depression such as drowsiness, headache, dizziness, vertigo, nausea and fatigue.</p> <p>Ingestion Harmful or fatal if inhaled into the lungs (ingestion/vomiting). May cause serious damage to lung tissue and respiratory tract. Signs of lung involvement include increased respiratory rate, increased heart rate, and a bluish discolouration of the skin. Coughing, choking and gagging are often noted at the time of aspiration.</p> <p>Respiratory or skin sensitization Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.</p>

IARC/NTP Classification	Common name Alkanes (C14-17), chloro	IARC NTP 2B R IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic. NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.
Carcinogenicity	Chlorinated paraffins of average carbon-chain length C12 and average degree of chlorination approximately 60% are possibly carcinogenic to humans (Group 2B) [IARC]. However, chronic ingestion studies in animals have shown that repeated doses of a similar chlorinated paraffin (C14-17, 52% chlorinated) gave no effect levels in the range of 250-300ppm. The lack of genotoxic activity together with the results of other studies leads to the conclusion that this chlorinated paraffin is unlikely to present a carcinogenic hazard to man under normal conditions of handling and use. The following information has been reported for the aliphatic petroleum distillates with regards to carcinogenicity (IARC, 1987): Untreated and mildly-treated oils are carcinogenic to humans (Group 1), and highly-refined oils are not classified as carcinogenic to humans.	
Mutagenicity	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.	
Reproductive toxicity	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.	
Specific target organ toxicity - single exposure	Central nervous system.	
Specific target organ toxicity - repeated exposure	No target organ is listed.	
Interactive effects	No information available.	
Other information	The oral and skin acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 mg/kg. These values are not classified according to WHMIS 2015 and OSHA HCS 2012. The acute toxicity estimate (ATE) by inhalation of the mixture was calculated to be greater than 10 mg/L/4h but lower than 20 mg/L/4h. This value is classified according to GHS: Acute toxicity, inhalation (Category 4).	


12. Ecological information

Ecological toxicity	Fish - Pimephales promelas - Fresh water Aquatic Invertebrate - Daphnia magna Aquatic Invertebrate - Daphnia magna Aquatic Invertebrate - Crustaceans - Gammarus pulex (fresh water)	LC50 8.2 mg/L; 96 h (64742-48-9) EC50 4.5 mg/L; 48 h (64742-48-9) OECD 202 EC50 0.0059 mg/L; 48 h [Alkanes (C14-17), chloro] EC50 1 mg/L; 96 h [Alkanes (C14-17), chloro]
Persistence	Contains an or many ingredients that may be persistent in aquatic environment.	
Degradability	Naphtha (petroleum), hydrotreated heavy (C6-C13) (CAS no 64742-48-9) is expected to biodegrade only very slowly in the environment (10% in 28 days, OECD 301D). Chlorinated paraffins do not biodegrade readily based on limited data (IPCS 1996, HSDB 2009).	
Bioaccumulative potential	Naphtha (petroleum), hydrotreated heavy (CAS no 64742-48-9) has Log Kow values ranging from 2.1 to 6.5 and Bioconcentration Factor (BCF) of >3000 for the oil mixture. These values indicate a high degree of bioaccumulation. Chlorinated paraffins have low water solubility and have a high partition coefficient log Kow from 4,48 to 7,38. These values indicate a high degree of bioaccumulation.	
Mobility in soil	The product is a hydrocarbon mixture of which some ingredients can evaporate into the air while others present a medium to low mobility in soil. If released to soil, chlorinated paraffins are bound to the soil particles and are not expected to volatilize or to leach into groundwater.	
Other adverse effects	This chemical does not deplete the ozone layer.	

13. Disposal considerations

Container 	<p>Important! Prevent waste generation. Use in full. DO NOT dispose residue in sewers, streams or drinking water supply. Non-use oils, organic solvents and wastes residues can be reprocessed (recycle) where there is a recovery program. Dispose via a licensed waste disposal contractor. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.</p>
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14. Transport information

UN Number	UN 3082
UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (chlorinated paraffins (C10-C17))
Environmental hazards	Chlorinated paraffins (C10-C17) are considered severe marine pollutants (PP).
Special precautions for user	Permit required for transportation with proper placards displayed on vehicle. Special Provision 99, paragraph 2: This Regulation of TDG Canada does not apply to the handling, offering for transport or transporting of less than 450 L on a road vehicle or a railway vehicle.
TDG - Transportation of Dangerous Goods (Canada)	
Transport hazard class(es)	 Class 9
Packing group	III
Emergency response guidebook 2012	<u>171</u>
IMO/IMDG - International Maritime Transport	
Classification	UN 3082. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (chlorinated paraffins (C10-C17)). Emergency schedules (EmS-No) F-A, S-F Class 9, PG III.
IATA - International Air Transport Association	
Classification	UN 3082. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (chlorinated paraffins (C10-C17)). Class 9, PG III.
<p>These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it.</p>	

15. Regulatory information

CANADA

Common name	CAS	CEPA	DSL	NDSL	NPRI
Naphtha (petroleum), hydrotreated heavy (C6-C13)	64742-48-9	X	X		X
Alkanes (C14-17), chloro	61788-76-9		X		X
Mineral oil mixture	Mineral oil				
Lard, oil	8016-28-2		X		
Oils, animal, mixed with vegetable oils, sulfurized	68991-19-5		X		

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act
- DSL: Domestic Substances List Inventory

- NDSL: Non-Domestic Substances List Inventory
- NPRI: National Pollutant Release Inventory Substances

UNITED STATE OF AMERICA

Common name	CAS	TSCA	CER CLA	EPCRA 313	EPCRA 302/304	CAA 112(b) HON	CAA 112(b) HAP	CAA 112(r)	CWA 311	CWA Prio.
Naphtha (petroleum), hydrotreated heavy (C6-C13)	64742-48-9	X								
Alkanes (C14-17), chloro	61788-76-9	X								
Mineral oil mixture	Mineral oil	X								
Lard, oil	8016-28-2	X								
Oils, animal, mixed with vegetable oils, sulfurized	68991-19-5	X								

- TSCA: Toxic Substance Control Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances
- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals
- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances
- CAA 112(b) HON: Clean Air Act - Hazardous Organic National Emission Standard for Hazardous Air Pollutant
- CAA 112(b) HAP: Clean Air Act - Hazardous Air Pollutants lists pollutants
- CAA 112(r): Clean Air Act - Regulated Chemicals for Accidental Release Prevention
- CWA 311: Clean Water Act - List of Hazardous Substances
- CWA Priority: Clean Water Act - Priority Pollutant list

California Proposition 65

No ingredients listed.

Other regulations

WHMIS 1988



B3

Class B3 : Combustible Liquid

HMIS

1	Health
2	Flamability
0	Reactivity
X	Protective Equipment

NFPA



16. Other information

Date (YYYY-MM-DD)	AEROCHEM Inc. 2016-02-01
Version	01
Other information	REFERENCES: - Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, http://hazmap.nlm.nih.gov/index.php

- TOXNET Databases, Toxicology Data Network, NIH U.S. National Library of Medicine, <http://toxnet.nlm.nih.gov/>
- Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), <http://www.reptox.csst.qc.ca>
- OECD Existing Chemicals Database, Chemicals Screening Information DataSet (SIDS) for High Volume Chemicals, UNEP publications, <http://webnet.oecd.org/HPV/UI/Search.aspx>
- Database, Institut National de Recherche et de Sécurité, <http://www.inrs.fr/accueil/produits/bdd.html>
- EPA ACToR (Aggregated Computational Toxicology Resource)
<http://actor.epa.gov/actor/faces/ACToRHome.jsp>

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

HMIS: Hazardous Materials Identification System

NFPA: National Fire Protection Association

OSHA: Occupational Safety and Health Administration (USA)

NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

RSST: Règlement sur la santé et la sécurité du travail (Québec)

GHS: Globally Harmonized System

IARC: International Agency for Research on Cancer

IDLH: Immediately Dangerous to Life or Health

STEL: Short Term Exposure Limit (15 min)

TWA: Time Weighted Averages

WHMIS: Workplace Hazardous Materials Information System

To the best of our knowledge, the information contained herein is accurate. However, neither Préventis System 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.

TM/MD