

1. Identification

Product identifier	ECOBIO-TAR
Product code	SOLECOTAR20LT, SOLECOTAR205LT
Other means of identification	This SDS sheet is for the product in liquid format.
Recommended use of the chemical and restrictions on use	Biodegradable degreaser to clean Asphalt, Bunker, Carbon, Grease, Oil, Tar. 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</p> <p>General Information: 1-888-592-5837</p> <p>www.aerochem.ca info@aerochem.ca</p>
Emergency phone number	<p>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 vapors. Do not ingest. If medical advice is needed, have this SDS or label at hand. 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/GHS/OSHA HCS 2012



Flammable liquids (Category 4)
Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2)
Skin sensitizer (Category 1)

WARNING

H227: Combustible liquid
H319: Causes serious eye irritation
H315: Causes skin irritation
H317: May cause an allergic skin reaction
P210: Keep away from heat, sparks, open flames and other ignition sources. No smoking.
P261: Avoid breathing vapours and spray.
P264: Wash skin thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves, protective clothing and eye protection.
P302+352: IF ON SKIN: Wash with plenty of water and soap.
P333+313: If skin irritation or a rash occurs: Get medical advice or attention.
P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists: Get medical advice or attention.

P362+364: Take off contaminated clothing and wash before reuse.

P403: Store in a well-ventilated place.

P501: Dispose of contents and container to a licensed chemical disposal agency in accordance with local, regional and national regulations.

3. Composition/information on ingredients

Common name	CAS	Weight % content
Soybean oil, Me ester	67784-80-9	65 - 85 %
d-Limonene	5989-27-5	10 - 30 %
Alcohols, C12-14, éthoxylated	68439-50-9	1 - 5 %
Isopropylamine dodecylbenzenesulfonate	26264-05-1	1 - 5 %

Note: The manufacturer withholds the actual concentration range of the ingredients as a trade secret.

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. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention. Discard contaminated leather articles such as shoes and belt.
Eye contact	Flush with water for at least 15 minutes. Remove contact lenses if easy to do. 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. Never give anything by mouth if victim is unconscious or convulsing. If victim is conscious wash out mouth with plenty of water. If spontaneous vomiting occurs, keep head below hip level to prevent aspiration into the lungs. If ingestion of a large amount does occur, seek medical attention or contact a Poison Centre immediately.
Other	No additional information.
Symptoms	May cause redness and irritation of the skin and to eyes. May cause an allergic reaction of the skin.
Notes to the physician	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, chemical foam, carbon dioxide (CO ₂). Do not use a heavy water jet.
Specific hazards arising from the chemical	Combustible liquid and vapours. May be ignited by heat, sparks, flame or static electricity.
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. 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 into sewers, closed areas and release to the environment. 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. Absorb with inert material (soil, sand, vermiculite) and place in an appropriate waste disposal clearly identified. Dispose via a licensed waste disposal contractor.

7. Handling and storage

Precautions for safe handling	Keep away from heat, sparks and open flame. Use in well ventilated area. Avoid contact with skin, eyes and clothing. Do not breathe vapours, mists or aerosols. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet. Keep away from heat and open flame. Keep containers tightly closed when not in use. Do not eat, do not drink and do not smoke during use. After use, wash hands with soap and water. Wash contaminated clothing 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). Store tightly close and in properly labelled container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials (see section 10). Keep away from direct sunlight and heat.
Storage temperature	5 to 45°C (41 to 113°F)

8. Exposure controls/personal protection

Immediately Dangerous to Life or Health	No IDLH value is reported.		
d-Limonene	TWA (8h)	30 ppm	US AIHA
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	Wear safety glasses with side shields. 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.		
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. Synthetic polyethylene coveralls or equivalent coveralls manufactured to provide protection against liquid chemicals should be worn, if necessary.		
Respiratory	A respirator is not required in a well-ventilated area. 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.

Feet

Wear rubber boots to clean up a spill.



Goggles

Nitrile gloves

9. Physical and chemical properties

Physical state	Liquid	Flammability	Non-flammable
Colour	Brownish	Flammability limits	N/Av.
Odour	Light citrus odor	Flash point	75°C (167°F) PM Closed Cup, ASTM D93
Odour threshold	N/Av.	Auto-ignition temperature	N/Av.
pH	4 to 4.5 @ 100%	Sensibility to electrostatic charges	N/Av.
Melting point	N/Av.	Sensibility to sparks and/or friction	No
Freezing point	N/Av.	Vapour density	N/Av. (Air = 1)
Boiling point	N/Av.	Relative density	0.89 kg/L (Water = 1)
Solubility	Negligeable (<5%) in water	Partition coefficient n-octanol/water	N/Av.
Evaporation rate	< Butyl Acetate	Decomposition temperature	N/Av.
Vapour pressure	N/Av.	Viscosity	10 cSt @ 40°C (104°F)
Percent Wt. Volatile	95%	Molecular mass	N/Av.
VOC (g/L)	N/Av.	% Volume Volatile (VOC)	N/Av.
VOC (lb/gal)	N/Av.	% Wt. Volatile (VOC)	20 to 24%
N/Av.: Not Available N/Av.: Not Applicable Und.: Undetermined N/E: Not Established			

10. Stability and reactivity

Reactivity	No known dangerous reactions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions (including polymerizations)	Hazardous polymerization will not occur.
Conditions to avoid	Avoid contact with incompatible materials. Avoid heat, flame and sparks.
Incompatible materials	Strong oxidizing agents (e.g. chlorine, fluorine, nitric acid, perchloric acid, peroxides, nitrates, chlorates, chromates, permanganates and perchlorates), strong acids (e.g. hydrochloric acid, sulfuric acid, phosphoric acid), strong bases (e.g. hydroxides, solutions of ammonia, amines,

carbonates).

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.


11. Toxicological information

Numerical measures of toxicity	Soybean oil, Me ester Ingestion >5000 mg/kg Rat LD50 Skin >2000 mg/kg Rabbit LD50 d-Limonene Ingestion 4400 mg/kg Rat LD50 Skin >5000 mg/kg Rabbit LD50 Alcohols, C12-14, éthoxylated Ingestion >2000 mg/kg Rat LD50 Skin >2000 mg/kg Rabbit LD50 Isopropylamine dodecylbenzenesulfonate Ingestion 1300 mg/kg Rat LD50
Likely routes of exposure	Skin, eyes, inhalation, ingestion.
Delayed, immediate and chronic effects	<p>Eye contact May cause irritation, redness, tearing and blurred vision. Eye Irritation/Corrosion, Rabbit (OECD TG 405): tests performed with each ingredient of this mixture gave not irritating to irritating results.</p> <p>Skin contact May cause redness and irritation of the skin. Skin Irritation/Corrosion, Rabbit (OECD 404) : tests performed with each ingredient of this mixture gave not irritating to irritating results. May cause an allergic reaction of the skin.</p> <p>Inhalation Overexposure may cause nose, throat and respiratory tract irritation.</p> <p>Ingestion Ingestion may cause gastrointestinal irritation and diarrhea.</p> <p>Respiratory or skin sensitization May cause an allergic reaction of the skin. Humans applied with patch tests showed signs of sensitization 10 to 15 minutes after the application of d-Limonene (CAS no 5989-27-5). Signs of sensitization were also observed in tests using guinea pigs (OECD TG 429). Moreover, recent studies indicate that the oxidation products of d-limonene which are responsible for the skin sensitization and not d-limonene itself. No ingredients listed.</p> <p>IARC/NTP Classification</p> <p>Carcinogenicity Ingredients present at levels greater than or equal to 0.1% of this product are not listed as a carcinogen by IARC, ACGIH, NIOSH, NTP or OSHA.</p> <p>Mutagenicity Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.</p> <p>Reproductive toxicity Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.</p> <p>Specific target organ toxicity - single exposure No target organ is listed.</p> <p>Specific target organ toxicity - repeated exposure No target organ is listed.</p>
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.

12. Ecological information

Ecological toxicity	Fish - Pimephales promelas - Fresh water	LC50	0.72 mg/L; 96 h (CAS no 5989-27-5) OECD 203
	Aquatic Invertebrate - Daphnia magna (static)	EC50	0.36 mg/L; 48 h (CAS no 5989-27-5) OECD 202
	Aquatic Invertebrate - Daphnia Magna, Water flea (immobilization)	EC50	6.7 mg/L; 48h (CAS no 26264-05-1) OECD 202
	Fish - Zebrafish - Danio rerio	LC50	1.2 mg/L; 96h (CAS no 68439-50-9)
	Water flea - Daphnia magna - fresh water	EC50	0.53 mg/L; 48h (CAS no 68439-50-9)
Persistence	Contain an ingredient that may be persistent in the environment.		
Degradability	The product is a mixture of which some ingredients are readily biodegradable (> 60% in 28 days) while other ingredients are not readily biodegradable (<60% in 28 days).		
Bioaccumulative potential	The product is a mixture of which some ingredients have a low bioaccumulation potential (Log Kow of <3 and / or BCF <500) while other ingredients have some potential to bioaccumulate (Log Kow of >3 and / or BCF >500).		
Mobility in soil	This product is soluble in water and it is expected to have high mobility in soil.		
Other adverse effects	This chemical does not deplete the ozone layer.		

13. Disposal considerations

Container 	Important! Prevent waste generation. Use in full. DO NOT dispose residue in sewers, streams or drinking water supply. Empty containers can be treated (recycled) 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.
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14. Transport information

UN Number	UN N/A
UN Proper Shipping Name	Not regulated by TDG (Canada). Regulated by 49 CFR DOT (USA). COMBUSTIBLE LIQUID, N.O.S.
Environmental hazards	This material does not contain marine pollutant.
Special precautions for user	NOTE: Regulated by 49 CFR DOT (USA): NA1993, COMBUSTIBLE LIQUID, N.O.S. (d-Limonene), Class 3, PG III. Not regulated in containers less than 450 L (119 gallons). See art. 173.150; Exceptions for Class 3 (flammable and combustible liquids). Permit required for transportation with proper DANGER placards displayed on vehicle.
TDG - Transportation of Dangerous Goods (Canada & US DOT)	
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Emergency response guidebook 2016	
IMO/IMDG - International Maritime Transport	
Classification	Not regulated

IATA - International Air Transport Association

Classification Not regulated

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.

15. Regulatory information

CANADA

Common name	CAS	CEPA	DSL	NDSL	NPRI
Soybean oil, Me ester	67784-80-9		X		
d-Limonene	5989-27-5	X	X		X
Alcohols, C12-14, éthoxylated	68439-50-9		X		
Isopropylamine dodecylbenzenesulfonate	26264-05-1		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.
Soybean oil, Me ester	67784-80-9	X								
d-Limonene	5989-27-5	X								
Alcohols, C12-14, éthoxylated	68439-50-9	X								
Isopropylamine dodecylbenzenesulfonate	26264-05-1	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


HMIS

- Health
- Flamability
- Reactivity
- Protective Equipment

NFPA

The NFPA hazard diamond shows a blue section with the number 1, a red section with the number 2, and a yellow section with the number 0. The white section is empty.

16. Other information

Date (YYYY-MM-DD)	AEROCHEM Inc. 2021-02-04
Version	06
Other information	<p>REFERENCES:</p> <ul style="list-style-type: none"> - Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, https://haz-map.com/ - 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 - The National Center for Biotechnology Information, National Institutes of Health (NIH), U.S. National Library of Medicine, https://pubchem.ncbi.nlm.nih.gov/ <p>DATE OF FIRST VERSION OF SDS: 2017-01-16.</p> <p>CHANGES MADE IN THE VERSION 02: section 3.</p> <p>DATE OF SECOND VERSION OF SDS: 2018-07-18.</p> <p>CHANGES MADE IN THE VERSION 03: section 3.</p> <p>DATE OF THIRD VERSION OF SDS: 2019-07-31.</p> <p>CHANGES MADE IN THE VERSION 04: sections 1, 3, 8, 11, 12, and 15.</p> <p>DATE OF FOURTH VERSION OF SDS: 2020-03-16.</p> <p>CHANGES MADE IN THE VERSION 05: section 9.</p> <p>DATE OF FIFTH VERSION OF SDS: 2021-01-27.</p> <p>CHANGES MADE IN THE VERSION 06: sections 2, 5, 7, 9, 14 and 15.</p> <p>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</p>
<p>Powered by</p>  <p>A global vision of prevention</p>	<p>To the best of our knowledge, the information contained herein is accurate. However, neither Preventis 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.</p>