

# Safety Data Sheet

## AEROPRO



# AEROCHEM

### 1. Identification

<b>Product identifier</b>	AEROPRO
<b>Product code</b>	SOLAEROPRO205LT ; SOLAEROPRO20LT
<b>Other means of identification</b>	None.
<b>Recommended use of the chemical and restrictions on use</b>	Concentrated industrial multipurpose degreaser. Not recommended for any other use not detailed on product data sheet or label.
<b>Manufacturer</b>	AEROCHEM Inc. 5977 Trans Canada Highway Pointe-Claire, QC H9R 1C1 Canada  General Information: 1-888-592-5837  <a href="http://www.aerochem.ca">www.aerochem.ca</a> <a href="mailto:info@aerochem.ca">info@aerochem.ca</a>
<b>Emergency phone number</b>	INFOTRAC®: 1-800-535-5053 International call collect: 1-352-323-3500 24 hours/day, 7 days/week

### 2. Hazard identification

<b>Summary</b>	Avoid contact with skin, eyes and clothing. Do not breathe vapours, mists or aerosols. 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.
----------------	---

#### WHMIS 2015/GHS/OSHA HCS 2012



Skin corrosion/irritation (Category 2)  
Serious eye damage/eye irritation (Category 2)  
Specific target organ toxicity, single exposure, Narcotic effects (Category 3)

#### WARNING

H319: Causes serious eye irritation  
H315: Causes skin irritation  
H336: May cause drowsiness or dizziness  
P261: Avoid breathing vapours, mist and spray.  
P264: Wash skin thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves, protective clothing and eye protection.  
P302+352: IF ON SKIN: Wash with plenty of water and soap.  
P332+313: If skin irritation occurs: Get medical advice or attention.  
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 physician if you feel unwell.  
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+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
Dodecyl alcohol, ethoxylated	9002-92-0	1 - 5 %
Sodium tripolyphosphate	7758-29-4	1 - 5 %
Propylene glycol monomethyl ether	107-98-2	1 - 5 %
Dipropylene glycol methyl ether	34590-94-8	1 - 5 %

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

### 4. First-aid measures

<b>Inhalation</b>	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.
<b>Skin contact</b>	Flush with water for at least 15 minutes. Remove contaminated clothing and wash before reuse. Avoid touching eyes with contaminated body parts. If a problem develops or persists, seek medical attention.
<b>Eye contact</b>	IMMEDIATELY flush with plenty of water. Remove contact lenses if easy to do. Flush with water for at least 15 minutes. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention.
<b>Ingestion</b>	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 water and give small amounts of water to drink. Seek medical attention or contact a Poison Centre immediately.
<b>Other</b>	No information available.
<b>Symptoms</b>	May cause redness and irritation of the skin and to eyes. Inhalation of vapours may cause central nervous system depression such as drowsiness, headache, dizziness, vertigo, nausea and fatigue.
<b>Notes to the physician</b>	Apply a symptomatic and supportive treatment. 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

<b>Suitable extinguishing media</b>	Dried powder, water fog, water spray, chemical foam, carbon dioxide (CO <sub>2</sub> ), ABC fire extinguishing.
<b>Specific hazards arising from the chemical</b>	This product is an aqueous solution which does not support combustion unless the water has been evaporated.
<b>Special protective equipment</b>	Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.
<b>Special protective actions for fire-fighters</b>	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


<b>Personal precautions, protective equipment and emergency procedures</b>	Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.
<b>Environmental precautions</b>	Prevent entry into sewers, closed areas and release to the environment. For a large spill, consult the Department of Environment or the relevant authorities.
<b>Methods and materials for containment and cleaning up</b>	Ventilate the area well. 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. Finish cleaning by rinsing with water contaminated surface. Dispose via a licensed waste disposal contractor.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Use 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 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.
<b>Conditions for safe storage, including any incompatibilities</b>	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 incompatible materials (see section 10). Keep away from frost and extreme temperature variations.
<b>Storage temperature</b>	5 to 40°C (41 to 104°F)

## 8. Exposure controls/personal protection

<b>Immediately Dangerous to Life or Health</b>	No IDLH value is reported.			
Sodium tripolyphosphate	TWA (8h)	Respirable Dust	5 mg/m <sup>3</sup>	OSHA
		Total Dust	15 mg/m <sup>3</sup>	OSHA
Dipropylene glycol methyl ether	STEL		150 ppm	ACGIH , BC, ON
			150 ppm	909 mg/m <sup>3</sup>
	TWA (8h)		100 ppm	ACGIH , BC, ON
			100 ppm	606 mg/m <sup>3</sup>
Propylene glycol monomethyl ether	STEL		75 ppm	BC
			100 ppm	ACGIH
			150 ppm	ON
			150 ppm	553 mg/m <sup>3</sup>
	TWA (8h)		50 ppm	RSST
			100 ppm	ACGIH , BC
			100 ppm	ON
			100 ppm	369 mg/m <sup>3</sup>
<b>Appropriate engineering controls</b>	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	
<b>Eye</b>	Wear safety glasses with side shields. If there is a risk of contact with eyes, wear chemical splash goggles.
<b>Hands</b>	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.
<b>Skin</b>	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. If necessary, wear an apron or long-sleeve protective coverall suit.
<b>Respiratory</b>	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 of exposure limit, wear a half mask respirator with organic vapour cartridges. For an APF until maximum 100 times of exposure limit, wear a full face mask respirator with organic vapour cartridges.
<b>Feet</b>	Wear rubber boots to clean up a spill.
 Goggles      Nitrile gloves	

## 9. Physical and chemical properties

<b>Physical state</b>	Liquid	<b>Flammability</b>	Non-flammable
<b>Colour</b>	Blue	<b>Flammability limits</b>	N/Av.
<b>Odour</b>	Odorless to faint	<b>Flash point</b>	N/Av.
<b>Odour threshold</b>	N/Av.	<b>Auto-ignition temperature</b>	N/Av.
<b>pH</b>	8.5 to 10.6	<b>Sensibility to electrostatic charges</b>	N/Av.
<b>Melting point</b>	0°C (32°F)	<b>Sensibility to sparks and/or friction</b>	No
<b>Freezing point</b>	0°C (32°F)	<b>Vapour density</b>	<1 (Air = 1)
<b>Boiling point</b>	100°C (212°F)	<b>Relative density</b>	1.025 to 1.045 kg/L (Water = 1)
<b>Solubility</b>	Soluble in water.	<b>Partition coefficient n-octanol/water</b>	N/Av.
<b>Evaporation rate</b>	< Butyl Acetate	<b>Decomposition temperature</b>	N/Av.
<b>Vapour pressure</b>	N/Av.	<b>Viscosity</b>	N/Av.
<b>Percent Volatile</b>	N/Av.	<b>Molecular mass</b>	N/Av.

N/Av.: Not Available    N/Av.: Not Applicable    Und.: Undetermined    N/E: Not Established



## 10. Stability and reactivity

<b>Reactivity</b>	No information available for this product.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions (including polymerizations)</b>	A dangerous reaction will not occur.
<b>Conditions to avoid</b>	Avoid contact with incompatible materials.
<b>Incompatible materials</b>	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), strong reducing agents (e.g. potassium, sodium, lithium, metal hydrides).
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

<b>Numerical measures of toxicity</b>	<p>Dipropylene glycol methyl ether      Ingestion 5250 mg/kg Rat LD50  Skin 9500 mg/kg Rabbit LD50</p> <p>Dodecyl alcohol, ethoxylated      Ingestion 4150 mg/kg Rat LD50  Skin &gt;2000 mg/kg Rabbit LD50</p> <p>Propylene glycol monomethyl ether      Ingestion 6600 mg/kg Rat LD50  Inhalation 36.4 mg/l/4h Rat LC50  Skin 13000 mg/kg Rabbit LD50</p> <p>Sodium tripolyphosphate      Ingestion 3120 mg/kg Rat LD50  Skin &gt;4640 mg/kg Rabbit LD50</p>						
<b>Likely routes of exposure</b>	Skin, eyes, inhalation, ingestion.						
<b>Delayed, immediate and chronic effects</b>	<p><b>Eye contact</b>      May cause redness and irritation to eyes. Eye Irritation/Corrosion, Rabbit (OECD TG 405): tests performed with each ingredient of this mixture gave not irritating to irritating results.</p> <p><b>Skin contact</b>      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.</p> <p><b>Inhalation</b>      Inhalation of vapours may cause central nervous system depression such as drowsiness, headache, dizziness, vertigo, nausea and fatigue. The severity of symptoms may vary depending on exposure conditions.</p> <p><b>Ingestion</b>      Ingestion can cause abdominal pain, nausea, cramps, headache, dizziness, diarrhea and vomiting.</p> <p><b>Respiratory or skin sensitization</b>      Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.</p> <p><b>IARC/NTP Classification</b></p> <table border="0"> <thead> <tr> <th><b>Common name</b></th> <th><b>IARC NTP</b></th> </tr> </thead> <tbody> <tr> <td>Dipropylene glycol methyl ether</td> <td>- -</td> </tr> <tr> <td>Propylene glycol monomethyl ether</td> <td>- -</td> </tr> </tbody> </table> <p><small>IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic.  NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.</small></p> <p><b>Carcinogenicity</b>      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><b>Mutagenicity</b>      Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.</p> <p><b>Reproductive toxicity</b>      Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.</p> <p><b>Specific target organ toxicity -</b>      Central nervous system.</p>	<b>Common name</b>	<b>IARC NTP</b>	Dipropylene glycol methyl ether	- -	Propylene glycol monomethyl ether	- -
<b>Common name</b>	<b>IARC NTP</b>						
Dipropylene glycol methyl ether	- -						
Propylene glycol monomethyl ether	- -						

	<b>single exposure</b> <b>Specific target organ toxicity - repeated exposure</b>	No target organ is listed.
<b>Interactive effects</b>	No information available.	
<b>Other information</b>	The oral and skin acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 mg/kg. The acute toxicity estimate (ATE) by inhalation of the mixture was calculated to be greater than 20 mg/L/4h. This value is not classified according to GHS. These values are not classified according to WHMIS 2015 and OSHA HCS 2012.	

## 12. Ecological information

<b>Ecological toxicity</b>	Fish - <i>Oryzias latipes</i> LC50 3.5 mg/L; 48h (CAS no 9002-92-0) Aquatic Invertebrate - <i>Daphnia magna</i> EC50 6.5 mg/L; 48h (CAS no 9002-92-0) Fish - <i>Pimephales promelas</i> - Fresh water LC50 20800 mg/L; 96h (CAS no 107-98-2) Aquatic Invertebrate - <i>Daphnia magna</i> EC50 23300 mg/L; 48h (CAS no 107-98-2) Algae, <i>Selenastrum capricornutum</i> EC50 >1000 mg/L; 96h (CAS no 107-98-2) Fish - <i>Pimephales promelas</i> - Fresh water LC50 >1000 mg/L; 96h (CAS no 34590-94-8) OECD 203 Aquatic Invertebrate - Crustaceans, <i>Daphnia Magna</i> EC50 1920 mg/L; 48h (CAS no 34590-94-8) OECD 202
<b>Persistence</b>	Not persistent in environment.
<b>Degradability</b>	No information available for this product. Dodecyl alcohol, ethoxylated (CAS no 9002-92-0) is readily biodegradable, 62.4% at the end of the 28 days (OECD TG 301B). Propylene glycol monomethyl ether (CAS no 107-98-2) is readily biodegradable (>90% in 28 days) OECD Guideline 301 E. Dipropylene glycol methyl ether (CAS no 34590-94-8) degrades readily in the presence of oxygen (93% in 13 days) but it is slightly biodegradable under anaerobic conditions (34% in 28 days, OECD 311). Under anaerobic conditions, microorganisms may degrade phosphate to phosphine.
<b>Bioaccumulative potential</b>	No information available for this product. With an estimated bioconcentration factor (BCF) of 120, Dodecyl alcohol, ethoxylated (CAS no 9002-92-0) is not expected to bioaccumulate in the food chain. Propylene glycol monomethyl ether (CAS no 107-98-2) is not expected to bioaccumulate based on measured bioconcentration factors (BCF <2) and a low partition coefficient (Log Kow -0.437). Dipropylene glycol methyl ether (CAS no 34590-94-8) has low potential to bioaccumulate due to its high water solubility and rapid rate of elimination/metabolism.
<b>Mobility in soil</b>	No information available for this product. Koc value for Propylene glycol monomethyl ether (CAS no 107-98-2) is reported as ranging between 0 and 50. This range of soil/sediment partitioning values would indicate that PGME moves quickly and readily through soil to groundwater, with very little sorption to soil expected. The high water solubility of dipropylene glycol monomethyl ether (CAS no 34590-94-8) suggests that it will not be adsorbed by soils or sediments and, therefore, would be expected to leach through soil. The Phosphorus cycle is well understood. Phosphates are converted to calcium or iron/aluminum phosphates or are incorporated with the organic soil matter. Under acidic soil conditions, sparsely soluble phosphates tend to solubilize and may migrate to water. Under alkaline soil conditions, soluble phosphates are translocated in the soil only over very short periods and are then immobilized under calcium or magnesium salts.
<b>Other adverse effects</b>	This chemical does not deplete the ozone layer.





Dodecyl alcohol, ethoxylated									
Sodium tripolyphosphate	7758-29-4	X	X					X	
Propylene glycol monomethyl ether	107-98-2	X				X			
Dipropylene glycol methyl ether	34590-94-8	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

<b>HMIS</b>	<b>NFPA</b>
<input type="checkbox"/> Health <input type="checkbox"/> Flammability <input type="checkbox"/> Reactivity <input type="checkbox"/> Protective Equipment	

## 16. Other information

<b>Date (YYYY-MM-DD)</b>	AEROCHEM Inc. 2020-03-03
<b>Version</b>	03
<b>Other information</b>	<p>REFERENCES:</p> <ul style="list-style-type: none"> <li>- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, <a href="https://haz-map.com/">https://haz-map.com/</a></li> <li>- TOXNET Databases, Toxicology Data Network, NIH U.S. National Library of Medicine, <a href="http://toxnet.nlm.nih.gov/">http://toxnet.nlm.nih.gov/</a></li> <li>- Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), <a href="http://www.reptox.csst.qc.ca">http://www.reptox.csst.qc.ca</a></li> <li>- The National Center for Biotechnology Information, National Institutes of Health (NIH), U.S. National Library of Medicine, <a href="https://pubchem.ncbi.nlm.nih.gov/">https://pubchem.ncbi.nlm.nih.gov/</a></li> </ul> <p>DATE OF FIRST VERSION OF SDS: 2017-01-10.</p> <p>CHANGES MADE IN THE VERSION 02: section 3.</p> <p>DATE OF SECOND VERSION OF SDS: 2019-07-31.</p> <p>CHANGES MADE IN THE VERSION 03: section 1.</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)</p>



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

Powered by



A global vision of prevention

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.

TM/MD

