SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:	**Aeriol ThixOSyn Aviation Grease**
Product Use:	Lubricant grease.
Restrictions on Use:	Refer to Grease Compatibility Chart
Manufacturer / Supplier:	Awsum Outcomes Inc. Bay 5 409 38 Ave NE Calgary, Alberta T2E 6R9 Canada Phone 1 587 353 2000
Emergency phone number:	CANUTEC – 24 hr Emergency No. 1-613-996-6666 Business Hour Number 1 587 353 2000 (Monday through Friday 8:00am to 4:30pm MST)

SECTION II: HAZARDS IDENTIFICATION

GHS Classification:

Not Applicable:	Not a hazardous substance or mixture.

GHS Label Element:

Hazard symbol:	**None**
Hazard statements:	N/A
Other hazards:	Not a hazardous substance or mixture
Precautionary statements:	None

Disposal:
P501 Dispose of contents/container to an approved waste disposal plant.
Storage:
P411+235: Store at temperatures not exceeding 190°C/374 °F. Keep cool.

Carcinogenicity:	Group 1: Carcinogenic to humans
IARC	Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential Carcinogen by OSHA.
NTP	Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4

SECTION III: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Concentration (%)
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	>= 10 - < 20 %
calcium carbonate	471-34-1	>= 10 - < 20 %
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	>= 1 - < 5 %
calcium dodecylbenzenesulphonate	26264-06-2	>= 1 - < 3 %
Sulfonic acids, petroleum, calcium salts	61789-86-4	>= 1 - < 5 %
bis(nonylphenyl)amine	36878-20-3	>= 1 - < 2.5 %
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	>= 1 - < 5 %

SECTION IV: FIRST AID MEASURES

Ingestion:	Obtain medical attention. Never give anything by mouth to an unconscious person. Not expected to be toxic by ingestion.
Skin Contact:	Wash off with warm water and soap. If hot material contacts skin, immediately cool before attempting removal. If skin irritation persists, call a physician. If high pressure forces the product under the skin get immediate medical attention!
Inhalation:	Remove to fresh air. Aspiration may cause pulmonary oedema and pneumonitis. If breathing is difficult, oxygen may be given by qualified personnel. If symptoms persist, consult physician.
Eye Contact:	Flush with clean tepid water for 15 minutes keeping eyelids open. Get medical attention immediately.
Most important symptoms and effects, both acute and delayed:	Irritating to respiratory tract and eyes. Breathing mist caused by high temperature or swallowing large quantities may be irritating to skin, respiratory system, mucous membranes and eyes.

SECTION V: FIRE-FIGHTING MEASURES

Suitable extinguishing media:	On small fires: carbon dioxide (CO_2), dry chemicals, dry sand - vermiculite. On large fires: treat as an oil fire, water fog, foam,
Unsuitable extinguishing media:	Avoid spreading with water flooding.
Hazardous combustion products:	Oxides of carbon, sulphur, calcium.
Special extinguishing methods:	Keep containers cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Special protective equipment and precautions for firefighters:	When fighting fire, treat as petroleum product, wear full protective clothing, including NIOSH approved self-contained breathing apparatus.
Fire and explosion hazards:	Do not cut, weld, or pressurize empty container. Container may explode in heat of fire.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Personal protection:	Wear suitable protective equipment. Eliminate sources and or potential sources of ignition.
Environmental precautions:	Product has very low solubility in water. Do not flush to sewers, streams or other bodies of water. For disposal, see Section XIII.
Methods for cleaning up:	Absorb on inert material such as sand, earth, vermiculite. Sweep up and collect in a suitable container for disposal. Observe government regulations
Large spills:	Stop leak if without risk. Dike to contain spill. Pump excess material into suitable container (metal drums, metal tanks, or such).

SECTION VII: HANDLING AND STORAGE

Handling:	Keep drums tightly closed to prevent contamination. Avoid contact with eyes, skin and clothing. Wear recommended personal protection equipment.
Storage:	Store in a cool well-ventilated area. Normal precautions common to good safety practice should be followed in storage.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

Canada

Component	CAS #	Form of Exposure	Permissible Concentration	Basis
Calcium carbonate	471-34-1	TWAEV (respirable)	10 mg/m^3	CA QC OEL
		TWA (total)	10 mg/m^3 Calcium)	CA AB OEL
		TWA	10mg/m3 Calcium carbonate	CAL PEL
Distillates(petroleum), solvent-refined paraffinic	64741-88-4	TWA	0.2mg/m3	CA BC OEL
		TWA(Mist)	0.2mg/m3	CA BC OEL
		TWA (Inhalable fraction))	5 mg/m3	CA AB OEL
		TWA(Mist)	1mg/m3	CA BC OEL
		STEL(Mist)	10mg/m3	CA AB OEL
		TWAEV(Mist)	5mg/m3	CA QC OEL
		STEV(Mist)	10mg/m3	CA QC OEL
		TWA(Mist)	1mg/m3	CA BC OEL
Calcium carbonate	471-34-1	TWAEV(Total dust)	10mg/m3	CA QC OEL
		TWA	10mg/m3 (Calcium)	CA AB OEL
		TWA	10mg/m3 Calcium carbonate	CA AB OEL

USA

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Distillates (petroleum), solventrefined heavy paraffinic	64741-88-4	TWA	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA P0
		PEL (particulate)	5 mg/m3	CAL PEL
calcium carbonate	471-34-1	PEL (Total dust)	10 mg/m3	CAL PEL
		PEL (respirable dust fraction)	5 mg/m3	CAL PEL
		TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL

Exposure Limits: If used in a way that generates a mist, observe the limits for mineral oil mist

Engineering controls: For normal application, special ventilation is not necessary. If the user's operation generates mist, use local ventilation to keep exposure to airborne contaminants below exposure limits.

Respiratory protection: None required under normal conditions of use. Use approved respirator with dual organic vapour/mist and particulate cartridge if

Eye protection:

Skin protection: vapour concentration exceeds permissible exposure limit.

Use safety goggles or face shield.

Hand protection:

Use rubber or plastic apron. Wear protective clothing to minimize skin contact. Use heat protective equipment when handling molten material.

Use oil resistant gloves.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Semi-solid
Appearance:	Tan
Odour:	Mild petroleum odour
Odour Threshold:	Not established at 20°C (68°F)
pH:	Not applicable
Drop Point:	300°C (572°F)
Boiling Point:	Not available
Flash Point:	>180°C (>356°F)
Evaporation Rate:	Not available
Upper Flammability Limit:	Not determined
Lower Flammability Limit:	Not determined
Specific Gravity:	0.95 – 1.05
Density:	1.05 g/cm^3 at 25°C (77°F)
Vapour Pressure:	<0.0008 hPa (0.00 mmHg) at 20°C (68°F)
Vapour Density:	Not available
Solubility in Water:	Negligible
Solubility in Organic Solvents:	Partly soluble
Autoignition Temperature:	Not available
Partitioning Coefficient:	Not available

SECTION X: STABILITY AND REACTIVITY

Chemical Stability: Stable.

Incompatibility: Avoid contact with oxidizing agents.

Reactivity: No reactivity.

Polymerization:	Will not occur.
Decomposition Products:	Oxides of carbon, sulfur, other hazardous decomposition products may be formed.

SECTION XI: TOXICOLOGICAL INFORMATION

Effects of Acute and Chronic Exposure:

Skin Contact:	May cause irritation.
Skin Absorption:	If high pressure forces the product under the skin get immediate medical attention.

Acute dermal toxicity:

Calcium carbonate:	
Acute oral toxicity	LD50(Rat):6450mg/kg
Calcium dodecylbenzenesulphonate (component):	LD50: > 4,199 mg/kg Species: rabbit Remarks: information given is based on data obtained from similar substances.
Sulfonic acids, petroleum, calcium salts (component):	
Acute oral toxicity:	LD50: > 5,000 mg/kg Species: rabbit Method: OECD Test Guideline 401 GLP: yes
Acute dermal toxicity:	LD50: > 4,000 mg/kg Species: rabbit Method: OECD Test Guideline 402 GLP:yes
Bis(nonylphenyl) amine:	LD50(Rat):.5000mg/kg LD50(Rat):>16,000mg/kg

Skin irritation:

Calcium carbonate (component):	LD50: > 2,000 mg/kg Species: rat

Calcium

dodecylbenzenesulphonate (component):	Species: rabbit Result: no skin irritation
Bis(nonylphenyl) amine:	Species: rabbit Result: No skin irritation Exposure time: 4h Remarks: information given is based on data obtained from similar substances
Eye Contact:	
Eye irritation:	Species: rabbit Result: no skin irritation Method: OECD Test Guideline 404
Calcium carbonate (component):	May cause irritation.
Calcium dodecylbenzenesulphonate (component):	Species: rabbit Result: no eye irritation
Benzenamine, N-phenyl-reaction products with 2,4,4-trimethylpentene (component):	Species: rabbit Result: rise of serious damage to eyes. Remarks: information given is based on data obtained from similar substances.
Inhalation:	
Ingestion:	Species: rabbit Result: no eye irritation Method: OECD Test Guideline 405
Acute oral toxicity (product):	No information available. Mist or spray may cause delayed onset of pulmonary oedema.
Irritancy:	No significant hazard. No evidence of harmful effect from available information. May cause diarrhea.
Sensitization:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method Remarks: No data available
Benzenamine, N-phenyl-reaction	Irritation to eyes and respiratory tract. Frequent and prolonged contact may irritate skin. If misted, inhalation of mist may cause

porudcts with 2,4,4-trimethylpentene (component):	irritation.
Sulfonic acids, petroleum, calcium salts (component):	Repeated or prolonged contact may cause sensitization in some individuals.
Benzenesulfonic acid, mono-C20-24-alkyl derivatives, calcium salts (component):	Species: guinea pig Classfication: did not cause sensitization on laboratory animals. Method: OECD Test Guideline 406
	Result: the product is a skin sensitizer, sub-category 1B.
Repeated Dose Toxicity (Product):	
Carcinogenicity:	Result: the product is a skin sensitizer, sub-category 1B.
	This information is not available.
Reproductive Toxicity:	
Calcium carbonate (component):	This product container material that has not been listed as a carcinogen or potential carcinogen by the National Toxicology Program. Internation Agency for Resesarch on Cancer, or the Occupational Safety and Health Administration.
CMR Effects:	
Calcium carbonate (component):	No adverse effects are anticipated.
	Species: rat Application route: oral
Benzenamine, N-phenyl-reaction products with 2,4,4-trimethylpentene (component):	
	Teratogenicity: No effect on or via lactation. Reproductive toxicity: no toxicity to reproduction.
Further Information:	Mutagenicity: not mutagenic in Ames Test.
	No evidence of harmful effects from available information.

SECTION XII: ECOLOGICAL INFORMATION

Toxicity to Fish:

Calcium dodecylbenzenesulphonate (component):	LC50: 22 mg/L Exposure time: 96h Species: Pimephales promelas (fathead minnow) Static test analytical monitoring: no Method: OECD Test Guideline 203 Remarks: information given is based on data obtained from similar substances.
Bis(nonylphenyl) amine	LC50:>1000mg/l Exposer time 96h Species: Cyprinodon variegatus (sheepshead minnow) LC50: > 1,000 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow) LC50: > 10,000 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow)
Sulfonic acids, petroleum, calcium salts (component):	LC50: > 10,000 mg/L Exposure time: 96h Species: Cyprinodon variegatus (sheepshead minnow) Static test method: OECD Test Guideline 203

Toxicity to Daphnia and Other Aquatic Invertebrates:

Calcium dodecylbenzenesulphonate (component):	EC50: 2.5 mg/L Exposure time: 48h Species: Daphnia magna (water flea) Static test method: OECD Test Guideline 202 Remarks: information given is based on data obtained from similar substances.
bis(nonylphenyl)amine (Component	LC50: 14 - 28 mg/l Exposure time: 96 h Species: Crangon crangon (shrimp) LC50: 18.9 - 39.2 mg/l Exposure time: 96 h Species: Crangon crangon (shrimp) LC50: 463 - 631 mg/l

	Exposure time: 96 h Species: Crangon crangon (shrimp)
Sulfonic acids, petroleum, calcium salts (component):	Method: OECD Test Guideline 202
	EC50: > 100mg/L Exposure time: 48h Species: Daphnia magna (water flea)
Toxicity to Algae:	Static test method: OECD Test Guideline 202
Sulfonic acids, petroleum, calcium salts (component):	EbC50: > 100mg/L Exposure time: 72h Species: green algae (Scenedesmus subspicatus) Static test analytical monitoring: no Method OECD Test Guideline 201
	ErC50: > 100 mg/L Species: green algae (Scenedesmus subspicatus) Static test analytical monitoring: no Method: OECD Test Guideline 201
Bioaccumulation:	
Calcium dodecylbenzenesulphonate (component):	Species: Lepomis macrochirus (bluegill sunfish) Exposure time: 21d Bioconcentration factor (BCF): 104
Biodegradability:	
Calcium dodecylbenzenesulphonate (component):	Result: readily biodegradable. Testing period: 28d:73% 10mg/l Remarks: information given is based on data obtained from similar substances.
Sulfonic acids, petroleum, calcium salts (component):	Aerobic. Result: not readily biodegradable. 8.6% Exposure time 28d GLP:yes

Further Information on Ecology:

Additional ecological information (product): No data available.
This product is stable in water, and can be mechanically separated from water. The water may be suitable for disposal in a biological waste water treatment plant.

SECTION XIII: DISPOSAL CONSIDERATION

RCRA 40 CFR 261 Classification: Not Listed

US EPA Waste Number / Classification: Not Available

Waste Disposal: Dispose of waste material in compliance with all federal, state, provincial and local regulations. Incinerate in a furnace or bury in an approved landfill where permitted under appropriate federal, provincial and local regulations.

SECTION XIV: TRANSPORT INFORMATION

Department of Transport:	Not regulated under DOT
TDG – Canada:	Not regulated under TDG
DOT/TDG Proper Shipping Name:	None
DOT/TDG Hazard Class:	None
Product Identification Number:	None
Packing Group:	None
DOT/TDG Labels: Primary:	None required
Subsidiary:	None required
DOT/TDG Placards:	None required
ADR:	Not dangerous goods
RID:	Not dangerous goods
MERCOSUR:	Not dangerous goods
IATA:	Not dangerous goods
IMDG:	Not dangerous goods

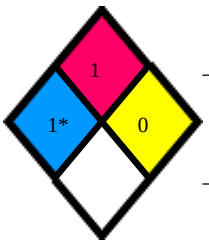
SECTION XV: REGULATORY INFORMATION

CPR Compliance:	This product has been classified in accordance with the hazard criteria of *the Controlled Products Regulations* and theSDS contains all of the information required by those regulations.
OSHA Hazard Communication Standards 29 CFR 1910.1200:	This product is not known to contain any of the carcinogens required to be listed under OSHA Hazards Communication Standards 29 CFR 1910.1200.
WHMIS Classification:	This is not controlled product under WHMIS.
CERCLA Reportable Quantity:	
Calcium dodecylbenzenesulphonate (component):	CAS# 26264-06-02 Component RQ (lbs): 1000 Calcium product RQ: calculated RQ exceeds reasonably attainable upper limit.
SARA 304 Reportable Quantity:	This material does not contain any components with section 304 EHS RQ.
SARA 311/312 Hazards:	Acute Health Hazard
SARA 302:	No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313:	This material does not contain any chemical components with CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

California Prop 65:	This product does contain a chemical known to State of California to cause cancer, birth defects, or any other reproductive harm (Oxirane 75-21-8).
US, TSCA:	On TSCA inventory.
DSL:	This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.
AICS:	On the inventory or in compliance with the inventory.
NZIoC:	On the inventory or in compliance with the inventory
ENCS:	Not in compliance with the inventory.
KECI:	Not in compliance with the inventory.
PICCS:	Not in compliance with the inventory.
IECSC:	Not in compliance with the inventory.

SECTION XVI: OTHER INFORMATION

HMIS Information



Degree of Hazard
4= Severe
3= Serious
2= Moderate
1= Slight
0= Minimal
*=Chronic

Revision Information

Prepared by:	Awsum Outcomes Inc.
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Revision:	7