

SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:	Aeriol Thixo #2 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 Canada T2E 6R9
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:

Causes no serious eye irritation:	Not a hazardous substance
May not cause an allergic skin reaction:	Not a hazardous substance

GHS Label Element:

Signal word :	Not a hazardous substance
Hazard symbol:	None

Hazard statements:	None
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Other hazards:	None
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Precautionary statements:

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

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:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION III: COMPOSITION/ INFORMATION ON INGREDIENTS

Hazardous Ingredients	Concentration %	C.A.S. #
Distillates (petroleum), solvent-refined heavy paraffinic	>= 50 - < 70 %	64741-88-4
Residual oils (petroleum), solvent-refined	>= 10 - < 20 %	64742-01-4
Calcium carbonate (dust)	>= 5 - < 10 %	471-34-1
Benzenesulfonic acid, C10-16 – alkyl derivatives, calcium salts	>= 1 - < 5 %	68584-23-6
Calcium dodecylbenzenesulphonate	>= 1 - < 5 %	26264-06-2
Sulfonic acids, petroleum, calcium salts	>= 1 - < 5 %	61789-86-4
Benzenesulfonic acid, mono C16-24 – alkyl derivatives, calcium salts	>= 1 - < 5 %	70024-69-0

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 goo safety practice should be followed in storage.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 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 vapor/mist and particulate cartridge if vapor concentration exceeds permissible exposure limit.
- Eye protection:** Use safety goggles or face shield.
- Skin protection:** Use rubber or plastic apron. Wear protective clothing to minimize skin contact. Use heat protective equipment when handling molten material.
- Hand protection:** Use oil resistant gloves.

USA

Component	CAS #	Form of Exposure	Permissible Concentration	Basis
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	TWA (mist)	5 mg/m ³	OSHA Z-1
		TWA (inhalable fraction)	5 mg/m ³	ACGIH
		TWA	5 mg/m ³	OSHA P0
		TWA (mist)	5 mg/m ³	NIOSH REL
		ST (mist)	10 mg/m ³	NIOSH REL
Residual oils (petroleum), solvent-refined	64742-01-4	TWA (mist)	5 mg/m ³	OSHA Z-1
		TWA (inhalable fraction)	5 mg/m ³	ACGIH
		TWA	5 mg/m ³	OSHA P0
		TWA (mist)	5 mg/m ³	NIOSH REL
		ST (mist)	10 mg/m ³	NIOSH REL
Calcium carbonate (dust)	471-34-1	TWA (respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL

Components with workplace control parameters :

Canada

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), solventrefined heavy paraffinic	64741-88-4	TWA (Mist)	0.2 mg/m3	CA BC OEL
		TWA	0.2 mg/m3	CA BC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
Residual oils (petroleum), solvent-refined	64742-01-4	TWA (Mist)	0.2 mg/m3	CA BC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
calcium carbonate	471-34-1	TWAEV (total dust)	10 mg/m3	CA QC OEL
		TWA	10 mg/m3 (Calcium)	CA AB OEL
		TWA	10 mg/m3 (Calcium carbonate)	CA AB OEL
Distillates (petroleum), solventrefined heavy paraffinic	64741-88-4	TWA (Mist)	0.2 mg/m3	CA BC OEL
		TWA	0.2 mg/m3	CA BC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
Residual oils (petroleum), solvent-refined	64742-01-4	TWA (Mist)	0.2 mg/m3	CA BC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Mist)	5 mg/m3	CA AB OEL

		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
calcium carbonate	471-34-1	TWAEV (total dust)	10 mg/m3	CA QC OEL
		TWA	10 mg/m3 (Calcium)	CA AB OEL
		TWA	10 mg/m3 (Calcium carbonate)	CA AB OEL

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Semi-solid
Appearance:	Brown
Odor:	Mild petroleum odor
Odor Threshold:	Not established at 20°C (68°F)
pH:	Not applicable
Drop Point:	300°C (572°F)
Boiling Point:	Not available
Flash Point:	215°C (420°F)
Evaporation Rate:	Not available
Upper Flammability Limit:	Not determined
Lower Flammability Limit:	Not determined
Density:	1.05g/cm ³ at 25°C (77°F)
Specific Gravity:	0.95 – 1.05
Vapor Pressure:	<0.0008 hPa (0.00 mmHg) at 20°C (68°F)
Vapor Density:	Not available
Solubility in Water:	Negligible
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, nitrogen, sulfur, calcium

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 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): LD50: > 4,000 mg/kg
Species: rabbit
Method: OECD Test Guideline 402

Benzenesulfonic acid, mono-C16-24-alkyl derivatives, calcium salts (component): LD50: > 2,000 mg/kg
Species: rat
Method: OECD Test Guideline 402

Skin irritation:

Calcium carbonate (dust) (component): Species: rabbit
Result: no skin irritation

Calcium dodecylbenzenesulphonate (component): Species: rabbit
Result: skin irritation
Exposure time: 4h
Remarks: information given is based on data obtained from similar substances

Eye Contact: May cause irritation.

Eye irritation:

Calcium carbonate (dust)
(component):

Species: rabbit
Result: no eye irritation

Calcium
dodecylbenzenesulphonate
(component):

Species: rabbit
Result: rise of serious damage to eyes.
Remarks: information given is based on data obtained from
similar substances.

Inhalation:

No information available. Mist or spray may cause delayed
onset of pulmonary oedema.

Ingestion:

No significant hazard. No evidence of harmful effect from
available information. May cause diarrhea.

Acute oral toxicity (Product):

Acute toxicity estimate: > 5,000 mg/kg

Irritancy:

Irritation to eyes and respiratory tract. Frequent and prolonged
contact may irritate skin. If misted, inhalation of mist may cause
irritation.

Sensitization:

Repeated or prolonged contact may cause sensitization in some
individuals.

Benzenesulfonic acid, C10-16-
alkyl derivatives, calcium salts
(component):

Result: the product is a skin sensitizer, sub-category 1B.

Sulfonic acids, petroleum,
calcium salts (component):

Result: the product is a skin sensitizer, sub-category 1B.

Benzenesulfonic acid, mono-C16-
24-alkyl derivatives, calcium salts
(component):

Result: the product is a skin sensitizer, sub-category 1B.

Carcinogenicity:

This product contains material that has not been listed as a
carcinogen or potential carcinogen by the National Toxicology
Program, International Agency for Research on Cancer, or the
Occupational Safety and Health Administration.

Reproductive Toxicity:

No adverse effects are anticipated.

Calcium carbonate (dust)
(component):

Species: rat
Application route: oral

CMR Effects:

Calcium carbonate (dust)
(component):

Teratogenicity: No effect on or via lactation.
Reproductive toxicity: no toxicity to reproduction.

Further Information:

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.

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.

Sulfonic acids, petroleum,
calcium salts (component):

EC50: > 100mg/L
Exposure time: 48h
Species: Daphnia magna (water flea)
Static test method: OECD Test Guideline 202

Toxicity to Algae:

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

Remarks: information given is based on data obtained from similar substances.

Sulfonic acids, petroleum,
calcium salts (component):

Aerobic.

Result: not readily biodegradable.

8.6%

Benzenesulfonic acid, mono-C16-
24-alkyl derivatives, calcium salts
(component):

Aerobic.

Result: according to the results of tests of biodegradability this product is not readily biodegradable.

8%

Method: OECD Test Guideline 301

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 the SDS contains all of the information required by those regulations.

OSHA Hazard Communication Standards 29CFR 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: D2B

NPRI Components: Diphenylamine CAS# 122-39-4

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 known 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: All components are on the Canadian DSL.

AICS: On the inventory, or in compliance with inventory.

NZIoC: On the inventory, or in compliance with inventory.

ENCS: Not in compliance with the inventory.

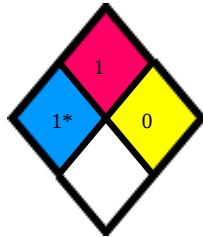
KECI: On the inventory, or in compliance with inventory.

PICCS: On the inventory, or in compliance with inventory.

IECSC: On the inventory, or in compliance with 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.
Phone:	1 587 353 2000
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Revision:	01 JAN 2019

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