

## **SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Identifier:</b>	<b>Aeriol Thixo #2 Aviation Grease</b>
<b>Product Use:</b>	Lubricant grease.
<b>Restrictions on Use:</b>	Refer to Grease Compatibility Chart
<b>Manufacturer / Supplier:</b>	Awsum Outcomes Inc.  Bay 5 409 38 Ave NE Calgary, Alberta  Canada T2E 6R9
<b>Emergency Phone Number:</b>	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

Other hazards: None

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**

<b>Ingestion:</b>	Obtain medical attention. Never give anything by mouth to an unconscious person. Not expected to be toxic by ingestion.
<b>Skin Contact:</b>	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!
<b>Inhalation:</b>	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.
<b>Eye Contact:</b>	Flush with clean tepid water for 15 minutes keeping eyelids open. Get medical attention immediately.
<b>Most important symptoms and effects, both acute and delayed:</b>	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**

<b>Suitable extinguishing media:</b>	On small fires: carbon dioxide (CO <sub>2</sub> ), dry chemicals, dry sand - vermiculite. On large fires: treat as an oil fire, water fog, foam,
<b>Unsuitable extinguishing media:</b>	Avoid spreading with water flooding.
<b>Hazardous combustion products:</b>	Oxides of carbon, Sulphur, calcium.
<b>Special extinguishing methods:</b>	Keep containers cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.
<b>Special protective equipment and precautions for firefighters:</b>	When fighting fire, treat as petroleum product, wear full protective clothing, including NIOSH approved self-contained breathing apparatus.
<b>Fire and explosion hazards:</b>	

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 <sup>3</sup>	OSHA Z-1
		TWA (inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH
		TWA	5 mg/m <sup>3</sup>	OSHA P0
		TWA (mist)	5 mg/m <sup>3</sup>	NIOSH REL
Residual oils (petroleum), solvent-refined	64742-01-4	ST (mist)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH
		TWA	5 mg/m <sup>3</sup>	OSHA P0
Calcium carbonate (dust)	471-34-1	TWA (mist)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (mist)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (respirable)	5 mg/m <sup>3</sup>	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup>	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/m <sup>3</sup>	CA BC OEL
		TWA	0.2 mg/m <sup>3</sup>	CA BC OEL
		TWA (Mist)	1 mg/m <sup>3</sup>	CA BC OEL
		TWA (Mist)	5 mg/m <sup>3</sup>	CA AB OEL
		STEL (Mist)	10 mg/m <sup>3</sup>	CA AB OEL
		TWAEV (Mist)	5 mg/m <sup>3</sup>	CA QC OEL
		STEV (Mist)	10 mg/m <sup>3</sup>	CA QC OEL
		TWA (Mist)	1 mg/m <sup>3</sup>	CA BC OEL
Residual oils (petroleum), solvent-refined	64742-01-4	TWA (Mist)	0.2 mg/m <sup>3</sup>	CA BC OEL
		TWA (Mist)	1 mg/m <sup>3</sup>	CA BC OEL
		TWA (Mist)	5 mg/m <sup>3</sup>	CA AB OEL
		STEL (Mist)	10 mg/m <sup>3</sup>	CA AB OEL
		TWAEV (Mist)	5 mg/m <sup>3</sup>	CA QC OEL
		STEV (Mist)	10 mg/m <sup>3</sup>	CA QC OEL
		TWA (Mist)	1 mg/m <sup>3</sup>	CA BC OEL
		calcium carbonate	471-34-1	TWAEV (total dust)
TWA	10 mg/m <sup>3</sup> (Calcium)			CA AB OEL
TWA	10 mg/m <sup>3</sup> (Calcium carbonate)			CA AB OEL
Distillates (petroleum), solventrefined heavy paraffinic	64741-88-4	TWA (Mist)	0.2 mg/m <sup>3</sup>	CA BC OEL
		TWA	0.2 mg/m <sup>3</sup>	CA BC OEL
		TWA (Mist)	1 mg/m <sup>3</sup>	CA BC OEL
		TWA (Mist)	5 mg/m <sup>3</sup>	CA AB OEL
		STEL (Mist)	10 mg/m <sup>3</sup>	CA AB OEL
		TWAEV (Mist)	5 mg/m <sup>3</sup>	CA QC OEL
		STEV (Mist)	10 mg/m <sup>3</sup>	CA QC OEL
		TWA (Mist)	1 mg/m <sup>3</sup>	CA BC OEL
Residual oils (petroleum), solvent-refined	64742-01-4	TWA (Mist)	0.2 mg/m <sup>3</sup>	CA BC OEL
		TWA (Mist)	1 mg/m <sup>3</sup>	CA BC OEL
		TWA (Mist)	5 mg/m <sup>3</sup>	CA AB OEL

		STEL (Mist)	10 mg/m <sup>3</sup>	CA AB OEL
		TWAEV (Mist)	5 mg/m <sup>3</sup>	CA QC OEL
		STEV (Mist)	10 mg/m <sup>3</sup>	CA QC OEL
		TWA (Mist)	1 mg/m <sup>3</sup>	CA BC OEL
calcium carbonate	471-34-1	TWAEV (total dust)	10 mg/m <sup>3</sup>	CA QC OEL
		TWA (Calcium)	10 mg/m <sup>3</sup>	CA AB OEL
		TWA (Calcium carbonate)	10 mg/m <sup>3</sup>	CA AB OEL

## **SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES**

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

## **SECTION X: STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Stable.
<b>Incompatibility:</b>	Avoid contact with oxidizing agents.
<b>Reactivity:</b>	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-alkly 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**

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

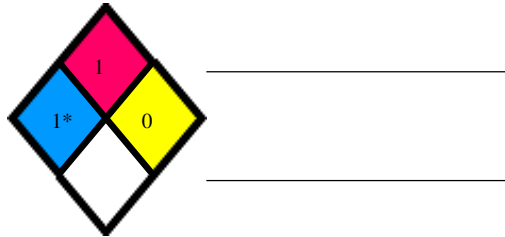
**KECI:** On the inventory, or in compliance with inventory.

**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**

<b>Prepared by:</b>	Awsum Outcomes Inc.
<b>Phone:</b>	1 587 353 2000
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