

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Aeriol ThixOSYN
Product code : 3820-2, 3820-3, 3821-0, 3822-0, 3823-0
Other means of identification : Bell Part # C-172

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Grease
multi uses
Professional uses
Restrictions on use : No additional information available

1.3. Supplier

Supplier

Awsum Outcomes Inc
Bay 5, 409 38th Avenue NE
Calgary, Alberta, T2E 6R9
Canada
T 1 587-353-2000; Toll Free: 1-844-512-4093
info@awsum.global - www.awsum.global

1.4. Emergency telephone number

Emergency number : Toll Free 1-844-512-4093 M-F 8 am-4 pm (English only)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Full text of H statements : see section 16		

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning
Hazard statements (GHS US) : H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
Precautionary statements (GHS US) : P261 - Avoid breathing vapors.
P264 - Wash hands thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, eye protection.
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.

Aeriol ThixOSYN

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P321 - Specific treatment (see supplemental first aid instruction on this label).
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.
P501 - Dispose of contents/container to a collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	CAS-No.: 68584-23-6	≥ 2.5 – < 5	Skin Sens. 1B, H317
benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	CAS-No.: 70024-69-0	≥ 2.5 – < 5	Skin Sens. 1B, H317
calcium dodecylbenzenesulphonate	CAS-No.: 26264-06-2	≥ 1 – < 2.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
polysulfides, di-tert-dodecyl	CAS-No.: 68425-15-0	≥ 1 – < 2.5	Skin Sens. 1B, H317

Comments : The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of § 1910.1200

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If medical advice is needed, have product container or label at hand. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Gently wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after skin contact : May cause an allergic skin reaction. Redness. Itching. Swelling. Skin rash/inflammation.

Symptoms/effects after eye contact : Causes serious eye irritation. Redness. Lacrimation. Itching. Blurred vision.

Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea. Abdominal pain.

Aeriol ThixOSYN

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Dry chemical. Carbon dioxide (CO₂). Foam. Use extinguishing agent suitable for surrounding fire.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

- Fire hazard : Presents no particular fire or explosion hazard. Burning produces stinking and toxic fumes. Do not breathe fumes from fires or vapors from decomposition.
- Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Metal oxides. Carbonyl halides. Sulfur oxides (SO_x). Nitrogen oxides.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Evacuate the danger area. Fight fire from safe distance and protected location. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers. Use extinguishing media appropriate for surrounding fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid all contact with skin, eyes, or clothing.

6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Evacuate unnecessary personnel. Ventilate spillage area. Avoid contact with skin and eyes. Do not touch or walk on the spilled product. No action shall be taken without appropriate training or involving any personal risk.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate unnecessary personnel. Avoid breathing (dust, vapor, mist, gas).

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Stop leak, if possible without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Move containers from spill area. Mechanically recover the product. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Clean using water and a detergent. Flush residue with large amounts of water. Prevent entry to sewers and public waters.
- Other information : Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques. Dispose of materials or solid residues at an authorized site.

Aeriol ThixOSYN

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Ensure good ventilation of the work station. Provide local exhaust or general room ventilation. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not re-use container for any purpose.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Incompatible materials, Direct sunlight. Store in a dry place. Keep away from food, drink and animal feedingstuffs. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store in accordance with local, regional, national or international regulation. Do not store in unlabelled containers.
- Incompatible products : Strong oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Monitoring methods

Monitoring methods	Refer to all applicable national, international and local regulations or provisions. Workplace atmospheres. Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy. Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents.
--------------------	--

8.2. Appropriate engineering controls

- Appropriate engineering controls : Provide local exhaust or general room ventilation. Handle in accordance with good industrial hygiene and safety procedures. Avoid all unnecessary exposure. Ensure exposure is below occupational exposure limits (where available).
- Environmental exposure controls : Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil. Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment. Personal protective equipment should be chosen according to the NIOSH standards and in discussion with the supplier of the protective equipment.

Hand protection:

Chemical resistant gloves (according to NIOSH standard). Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Aeriol ThixOSYN

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing. Skin protection appropriate to the conditions of use should be provided

Respiratory protection:

Where excessive vapor, mist, or dust may result, use approved respiratory protection equipment. All respirators must conform to specifications for efficiency and performance indicated by OSHA Standard 29 CFR 1910.134 and NIOSH Standards

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Paste. Grease.
Color	: Tan
Odor	: Mild odor petroleum-like odor
Odor threshold	: No data available
pH	: Not applicable
Melting point	: > 300 °C (> 572 °F)
Freezing point	: > -40 °C (> -40 °F)
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 0 kPa (20 °C, 68 °F)
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 0.95 – 1.05 g/cm ³ (25 °C, 77 °F)
Solubility	: Water : Negligible.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

Additional information : Viscosity, apparent: 200 P (0 °C, 32 °F, 200 s⁻¹, Poise, D1092)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

Aeriol ThixOSYN

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.3. Possibility of hazardous reactions

Hazardous polymerization: Will not occur. No dangerous reactions known.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

polysulfides, di-tert-dodecyl (68425-15-0)

LD50 oral rat	> 2500 mg/kg
LD50 dermal rat	> 2000 mg/kg

calcium dodecylbenzenesulphonate (26264-06-2)

LD50 oral rat	1300 mg/kg
LD50 dermal rabbit	> 4199 mg/kg
ATE US (oral)	500 mg/kg body weight

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Symptoms/effects after inhalation : Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact : May cause an allergic skin reaction. Redness. Itching. Swelling. Skin rash/inflammation.
Symptoms/effects after eye contact : Causes serious eye irritation. Redness. Lacrimation. Itching. Blurred vision.
Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea. Abdominal pain.
Other information : No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Do not allow product to spread into the environment.

Aeriol ThixOSYN

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

polysulfides, di-tert-dodecyl (68425-15-0)	
NOEC chronic fish	> 0.00084 mg/l (32 d, Pimephales promelas)
NOEC chronic crustacea	> 0.00079 mg/l (21 d, Daphnia magna)
NOEC chronic algae	> 100 mg/l (72 d, Pseudokirchneriella subcapitata)
calcium dodecylbenzenesulphonate (26264-06-2)	
LC50 - Fish [1]	22 mg/l (96 h, Pimephales promelas, OECD 203)
EC50 - Crustacea [1]	2.5 mg/l (48 h, Daphnia magna, OECD 202)

12.2. Persistence and degradability

Aeriol ThixOSYN	
Persistence and degradability	Biodegradability in water: no data available.
polysulfides, di-tert-dodecyl (68425-15-0)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	0 % (28 d)
calcium dodecylbenzenesulphonate (26264-06-2)	
Persistence and degradability	Readily biodegradable.
Biodegradation	73 % (28 d)

12.3. Bioaccumulative potential

Aeriol ThixOSYN	
Bioaccumulative potential	No data available concerning bioaccumulation.
polysulfides, di-tert-dodecyl (68425-15-0)	
Partition coefficient n-octanol/water (Log Pow)	> 6.2 (pH=7, 72 °C)
calcium dodecylbenzenesulphonate (26264-06-2)	
BCF - Fish [1]	104 (21 d, Lepomis macrochirus)
Partition coefficient n-octanol/water (Log Pow)	4.77 (25 °C)

12.4. Mobility in soil

Aeriol ThixOSYN	
Ecology - soil	No additional information available.

12.5. Other adverse effects

Other adverse effects : No additional information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecological information : Avoid release to the environment.

Aeriol ThixOSYN

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

DOT NA No	: Not regulated
UN-No. (TDG)	: Not regulated
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Not regulated
Proper Shipping Name (TDG)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not regulated

TDG
Transport hazard class(es) (TDG) : Not regulated

IMDG
Transport hazard class(es) (IMDG) : Not regulated

IATA
Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (DOT)	: Not regulated
Packing group (TDG)	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT
Not regulated

TDG
Not regulated

IMDG
Not regulated

IATA
Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Aeriol ThixOSYN

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

calcium dodecylbenzenesulphonate (26264-06-2)

CERCLA RQ	1000 lb
-----------	---------

15.2. International regulations

CANADA

polysulfides, di-tert-dodecyl (68425-15-0)

Listed on the Canadian DSL (Domestic Substances List)

benzenesulfonic acid, C10-16-alkyl derivs., calcium salts (68584-23-6)

Listed on the Canadian DSL (Domestic Substances List)

benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0)

Listed on the Canadian DSL (Domestic Substances List)

calcium dodecylbenzenesulphonate (26264-06-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

calcium dodecylbenzenesulphonate (26264-06-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 2/9/2024
Data sources : Supplier's safety documents. ECHA (European Chemicals Agency).
Training advice : Training staff on good practice.

Full text of H-phrases

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction

Aeriol ThixOSYN

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases	
H318	Causes serious eye damage
H319	Causes serious eye irritation

Indication of changes:
Sections 1-16.

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.