Aeriol ThixOSYN

Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)
Issue date: 9/02/2024 Version: 1.0

SECTION 1: Identification

1.1 Product identifier

Trade name : Aeriol ThixOSYN
Product form : Mixture
Product code : 3820-2, 3820-3, 3821-0, 3822-0, 3823-0

1.2 Other means of identification

Other means of identification : Bell Part # C-172

1.3 Recommended use of the chemical and restrictions on use

Recommended use : Grease
multi uses
Professional uses
Restrictions on use : No additional information available

1.4 Details of manufacturer or importer

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

1.5. Emergency phone number

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

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, category 1B	H317

2.2. GHS Label elements, including precautionary statements

GHS NZ labelling

Hazard pictograms (GHS NZ) :

Signal word (GHS NZ) : Warning
Contains : benzenesulfonic acid, C10-16-alkyl derivs., calcium salts (≥ 1 – < 5 %); benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (≥ 1 – < 5 %); calcium dodecylbenzenesulphonate (≥ 1 – < 3 %); polysulfides, di-tert-dodecyl (≥ 1 – < 2.5 %)
Hazard statements (GHS NZ) : H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
Prevention : P280 - Wear protective gloves, protective clothing, eye protection, face protection.
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, medical attention.
P337+P313 - If eye irritation persists: Get medical advice, medical attention.

Disposal : P501 - Dispose of contents and 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

SECTION 3: Composition and information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS NZ
benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	CAS-No.: 68584-23-6	≥ 1 – < 5	Skin Sens. 1B, H317
benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	CAS-No.: 70024-69-0	≥ 1 – < 5	Skin Sens. 1B, H317
calcium dodecylbenzenesulphonate	CAS-No.: 26264-06-2	≥ 1 – < 3	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
bis(nonylphenyl)amine	CAS-No.: 36878-20-3	≥ 1 – < 3	Aquatic Chronic 4, H413
polysulfides, di-tert-dodecyl	CAS-No.: 68425-15-0	≥ 1 – < 2.5	Skin Sens. 1B, H317

SECTION 4: First-aid measures

4.1. Description of necessary 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. Symptoms caused by exposure

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.

4.3. Medical attention and special treatment

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. 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 vapours from decomposition.
General measures	:	Avoid all contact with skin, eyes, or clothing.
Hazardous decomposition products in case of fire	:	Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Metal oxides. Carbonyl halides. Sulfur oxides (SOx). 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 the 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 materials for containment and cleaning up

For containment	:	Stop leak without risks if possible. 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.

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 and personal protection

8.1. Control parameters - exposure standards

No additional information available

Exposure limit values for the other components

No additional information available

8.2. Monitoring methods

Monitoring methods	:	Refer to all applicable national, international and local regulations or provisions.

8.3. 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).

8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment	:	Wear recommended personal protective equipment.
Hand protection	:	Wear suitable gloves resistant to chemical penetration. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer
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 vapour, mist, or dust may result, use approved respiratory protection equipment
Environmental exposure controls	:	Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil. Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state	:	Solid
Appearance	:	Paste. Grease.
Colour	:	Tan
Odour	:	Mild odor petroleum
Odour threshold	:	No additional information available
pH	:	No additional information available
Evaporation rate	:	No additional information available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point / Freezing point	:	Melting point: > 300 °C (> 572 ºF) Freezing point: > -40 °C (> -40 ºF)
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Flammability	:	No additional information available
Vapour pressure	:	0 kPa (20 ºC)
Relative density	:	No additional information available
Density	:	0.95 – 1.05 g/cm³ (25 ºC)
Solubility	:	Water : Negligible.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, dynamic	:	No data available

Explosive properties	:	No data available
Explosive limits	:	No additional information available
Minimum ignition energy	:	No data available
Viscosity, apparent	:	200 P (0°C, 32 ºF, 200 s^{-1}, Poise, D1092)

SECTION 10: Stability and reactivity

Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Stable under normal conditions of use.
Possibility of hazardous reactions	:	Hazardous polymerisation: Will not occur. No dangerous reactions known.
Conditions to avoid	:	None under recommended storage and handling conditions (see section 7).
Incompatible materials	:	Strong oxidizing agents.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Toxicity

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

bis(nonylphenyl)amine (36878-20-3)	
LD50 oral rat	> 5000 mg/kg
LD50 oral	> 16000 mg/kg (rat)

Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Causes serious eye irritation.
Respiratory or skin sensitisation	:	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
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. Ecotoxicity

Hazardous to the aquatic environment, short–term (acute)	:	Not classified
Hazardous to the aquatic environment, long–term (chronic)	:	Not classified.
Soil toxicity	:	Not classified
Terrestrial vertebrate toxicity	:	Not classified

Terrestrial invertebrate toxicity : Not classified

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)
Partition coefficient n-octanol/water (Log Pow)	> 6.2 (pH=7, 72 °C)
	> 2000 mg/kg
LD50 oral rat	> 2500 mg/kg

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)
BCF - Fish [1]	104 (21 d, Lepomis macrochirus)
Partition coefficient n-octanol/water (Log Pow)	4.77 (25 °C)
LD50 dermal rabbit	> 4199 mg/kg
LD50 oral rat	1300 mg/kg

bis(nonylphenyl)amine (36878-20-3)	
LC50 - Fish [1]	> 1000 mg/l (96 h, Cyprinodon variegatus)
LC50 - Fish [2]	> 1000 mg/l (96 h, Pimephales promelas)
EC50 - Crustacea [1]	14 – 28 mg/l (96 h, Crangon crangon)
EC50 - Crustacea [2]	18.9 – 39.2 (96 h, Crangon crangon)
LD50 oral rat	> 5000 mg/kg

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	
Mobility in soil	No additional information available
Ecology - soil	No additional information available.

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)	
Partition coefficient n-octanol/water (Log Pow)	4.77 (25 °C)

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available.

SECTION 13: Disposal considerations

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

SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

IMDG	IATA	UNRTDG
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		

14.6. Special precautions for user

Transport by road and rail
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

14.7. Transport in bulk according to IMO instruments

Not applicable

14.8. Hazchem or Emergency Action Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

calcium dodecylbenzenesulphonate (26264-06-2)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR003167

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Issue date : 9/02/2024

Data sources : ECHA (European Chemicals Agency). Supplier's safety documents.
Training advice : Training staff on good practice.

Full text of H-statements	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H413	May cause long lasting harmful effects to aquatic life

Safety Data Sheet (SDS), New Zealand

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.