

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Trade name : ThixoSUM2
Product code : 3400-425-1, 3400-425-30, 3400-17-1, 3400-55-1, 3400-180-1
Other means of identification :

1.2. Recommended use and restrictions on use

Recommended use : General use, Industrial use, Professional uses, Grease
Restrictions on use : No additional information available

1.3. Supplier

Supplier
Awsun Outcomes Inc
Bay 5, 409 38th Avenue NE
Calgary, Alberta, T2E 6R9
Canada
T 1 587-353-2000
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 identification

2.1. Classification of the substance or mixture

Classification (GHS CA)
Not classified

2.2. GHS Label elements, including precautionary statements

GHS CA labeling
No labeling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018

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Name	Chemical name / Synonyms	Product identifier	% (w/w)	Classification (GHS CA)
benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	-	CAS-No.: 68584-23-6	1 - 5	Skin Sens. 1B, H317

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

Comments : SCL for Skin Sens. 1B: $\geq 10\%$

SECTION 4: First-aid measures

4.1. Description of first aid measures

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. Get medical attention if symptoms occur. Take off contaminated clothing and wash it before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. When in doubt or if symptoms are observed, get medical advice.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
First-aid measures general	: If medical advice is needed, have product container or label at hand.

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	: Repeated or prolonged contact may cause allergic reactions in very susceptible persons.
Symptoms/effects after eye contact	: Direct contact with the eyes is likely slightly irritating. Redness. Lacrimation. Itching. Blurred vision.
Symptoms/effects after ingestion	: Ingestion may cause nausea, vomiting and diarrhea. Abdominal pain.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Use extinguishing agent suitable for surrounding fire.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

5.3. Specific hazards arising from the hazardous product

Fire hazard	: Presents no particular fire or explosion hazard. Burning produces stinking and toxic fumes.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Sulfur oxides (SOx). Carbonyl halides. Metal oxides.

5.4. 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 extinguishing media appropriate for surrounding fire. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.

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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.

6.2. Methods and materials 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 : Caution : this product can cause the floor to be slippery. 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.

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.

6.3. Reference to other sections

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. Avoid breathing vapors, mist. Wear personal protective equipment. Avoid contact with skin, eyes and 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 : Store in dry, cool, well-ventilated area. Keep only in the original container. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Keep away from food, drink and animal feed. Store away from direct sunlight or other heat sources. Refer to Section 10 on Incompatible Materials. Store in accordance with local, regional, national or international regulation.

Incompatible products : Strong oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety procedures. Avoid all unnecessary exposure. Provide local exhaust or general room ventilation. 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.

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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:

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:

Even though no specific eye irritation data are available, wear eye protection appropriate to conditions of use when handling this material

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Paste. Grease.
Color	: brown
Odor	: mild Petroleum-like odor
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 160 °C (320 °F, closed cup)
Auto-ignition temperature	: > 315 °C (> 599 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: 0 hPa (20 °C, 68 °F)
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 1.22787 g/cm ³ (25 °C, 77 °F)
Solubility	: Water: Negligible
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 130 – 145 mm ² /s (40 °C, ASTM D445); 13.6 cSt (100 °C, ASTM D445)
Explosion limits	: No data available

9.2. Other information

Worked Penetration	: 266 (60 Stroke, ASTM D217)
Dropping Point	: 308 °C (ASTM D2265)
Oil Separation	: 0.0 % (Storage, 24 hrs, 25 °C, ASTM D1742)
Tilken Pass/Fail Load Carrying Test	: Pass, 2.28 mm scar (14,420 psi) (65 lbs, wear scar (psi load), ASTM D2509)

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Four Ball Wear	: 0.50 mm (40 kg, 1200 rpm, 1hr, 75 °C, ASTM D2266)
Water Washout	: 1.12 % (79 °C (one bearing for screening), Bearing 1 Dried, 93 °C, ASTM D126)
Rust Preventive Properties	: Pass (48 hrs, 52 °C, ASTM D1743)
Load Wear Index	: 85.5 kgf (ASTM D2596)
Last Non-Seizure Load	: 63 kg (0.38 mm) (322,556 psi) (scar) (psi)
Last Seizure Load	: 500 (2.45 mm) (42,477 psi) (scar) (psi)
Weld Load	: 620 kg
Salt Spray Corrosion Test	: 5 %, Salt Fog, 300 hrs., ASTM B117 : Panel A - Rated per ASTM D610: #10 : Panel B - Rated per ASTM D610: #10 : Panel C - Rated per ASTM D610: #10
Low Temperature Torque	: -20 °C, ASTM D1478: Starting Torque 3,608 g-cm 1 Hour Running Torque 390 g-cm -30 °C, ASTM D1478: Starting Torque: 10,472 g-cm 1 Hour Running Torque: 1,365 g-cm
Organic contents	: 0.50 %
Solids content	: 38.5 %

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	: No dangerous reactions known. Hazardous polymerization: Will not occur.
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.
Hardening time:	: No additional information available

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
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
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

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Viscosity, kinematic	130 – 145 mm ² /s (40 °C, ASTM D445); 13.6 cSt (100 °C, ASTM D445)
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Symptoms/effects after inhalation	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Repeated or prolonged contact may cause allergic reactions in very susceptible persons.
Symptoms/effects after eye contact	: Direct contact with the eyes is likely slightly irritating. Redness. Lacrimation. Itching. Blurred vision.
Symptoms/effects after ingestion	: Ingestion may cause nausea, vomiting and diarrhea. Abdominal pain.

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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

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

12.2. Persistence and degradability

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Persistence and degradability	Biodegradability in water: no data available.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	No data available concerning bioaccumulation.
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12.4. Mobility in soil

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Ecology - soil	No additional information available.
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12.5. Other adverse effects

Ozone : Not classified

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 waste information : Avoid release to the environment.

SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (TDG) : Not regulated

Proper Shipping Name (DOT) : Not regulated

Proper Shipping Name (IMDG) : Not regulated

Proper Shipping Name (IATA) : Not regulated

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14.3. Transport hazard class(es)

TDG

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

DOT

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

IMDG

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

IATA

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

14.4. Packing group

Packing group (TDG) : Not regulated

Packing group (DOT) : 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

TDG

Not regulated

DOT

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

SECTION 15: Regulatory information

15.1. National regulations

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

Listed on the Canadian DSL (Domestic Substances List)

Canada DSL NDSL Flags

Significant New Activity (SNAc) provisions of the Act apply

15.2. International regulations

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Not listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

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SECTION 16: Other information

Revision date : 12-12-2024
Supersedes : 10-27-2023

Indication of changes:

Sections 1-16.

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

Full text of hazard classes and H-statements:

H317	May cause an allergic skin reaction
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Safety Data Sheet (SDS), Canada

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.