


Calcium Dodecylbenzene Sulfonate

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Linear Formula	C ₂₂ H ₄₄ CaO ₄ S ₂
Pubchem CID	24180685
MDL Number	MFCD00152323
EC No.	247-557-8
IUPAC Name	calcium; 4-dodecan-3-ylbenzenesulfonate
Beilstein/Reaxys No.	N/A
SMILES	CCCCCCCC(C)(C)C1=CC=C(C(=O)S(=O)(=O)O)O.CCCCCCCCC(C)(C)C1=CC=C(C(=O)S(=O)(=O)O)[Ca+2]
InChI Identifier	InChI=1S/2C18H30O3S.Ca/c2*1-3-5-6-7-8-9-10-11-16(4-2)17-12-14-18(15-13-17)22(19,20)21/h2*12-16H,3-11H2,1-2H3,(H,19,20,21)/q;+2/p-2
InChI Key	YBKHTNPQDFNPO-UHFFFAOYSA-L
Signal Word	Warning
Hazard Statements	H315-H319-H335
Hazard Codes	Xi
Precautionary Statements	P261-P264-P271-P280-P302+P352-P304+P340-P305+P351+P338-P312-P332+P313-P337+P313-P362
Risk Codes	N/A
Safety Statements	N/A
Transport Information	NONH for all modes of transport
GHS Pictograms	GHS07 Exclamation Point 

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SAFETY DATA SHEET

Date Accessed: 05/18/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #26264-06-2

Relevant identified uses of the substance:
Scientific research and development

Supplier details:
American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351

Emergency telephone number:
Domestic, North America +1 800-424-9300
International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification (United States)
Skin irritation (Category 2)
Eye irritation (Category 2A)

Specific target organ toxicity - single exposure
(Category 3), Respiratory system



Signal word:

Warning

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statement(s):

P261 Avoid breathing

dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a poison center or doctor if you feel unwell.

P321 Specific treatment (see supplemental first aid instructions on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS:

None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Not available.

CAS#: 26264-06-2

Purity: ~70%

SECTION 4. FIRST AID MEASURES

General Information:

Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

Inhalation:

Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

Skin contact:

Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

Eye contact:

Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

Ingestion:

Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

Most important symptoms and effects, both acute and delayed:

No further information available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed:

No further information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

Specific hazards arising from the chemical:

Carbon oxides, Sulfur oxides, Calcium oxides.

Advice for firefighters:

As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions:

Do not let product enter drains, other waterways, or soil.

Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin, eyes, and personal clothing.

Wash hands

thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities:

Store in a tightly-closed container when not in use.

Store in a cool, dry, well-ventilated area away from incompatible substances.

Keep away from sources of ignition.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

OSHA PEL: Not available.

NIOSH REL: Not available.

ACGIH TLV: Not available.

Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne

concentrations low.

Personal protection

Eyes: Based on an evaluation of the eye or face hazards present, wear chemical splash-resistant safety glasses or goggles with side protection. A face shield may be appropriate in some workplaces. Use eyewear tested and approved under appropriate government standards such as OSHA 29 CFR 1910.133 or EU EN166.

Hands: Wear gloves selected based on an evaluation of the possible hazards to hands and skin, the duration of use, the physical conditions of the workplace, and the chemical resistance and physical properties of the glove material.

Skin and body: Protective clothing must be selected based on the hazards present in the workplace, the physical environment, the duration of exposure, and other factors. No fabric can provide protection against all potential hazards; therefore it is important to select the appropriate protective clothing for each specific hazard. At the minimum, wear a laboratory coat and close-toed footwear.

Respiratory: Respirators are not a substitute for accepted engineering control measures such as enclosure or confinement of the operation, general and local ventilation, and substitution of less toxic materials. When respiratory personal protective equipment is appropriate based on an assessment of respiratory hazards in the workplace, use a NIOSH- or CEN-certified respirator.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: White to light yellow solid

Molecular Formula: $2C_{18}H_{29}O_3S.Ca$

Molecular Weight: 691.058

Odor: Not available.

pH: Not available.

Boiling Point Range: Not available.

Freezing/Melting Point: Not available.

Flash Point: Not available.

Evaporation Rate: Not available.

Flammability(solid,gas): Please see section 2.

Explosive limits: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Solubility: Not available.

Relative Density: 1.04

Refractive Index: Not available.

Volatility: Not available.

Auto-ignition Temperature: Not available.
Decomposition Temperature: Not available.
Partition Coefficient: Not available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not available.
Chemical stability: Stable under recommended temperatures and pressures.
Possibility of hazardous reactions: Not available.
Conditions to avoid: Dust generation.
Incompatible materials: Strong oxidizing agents.
Hazardous decomposition products: Carbon oxides, Sulfur oxides, Calcium oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS# Not available.
Acute toxicity: Not available.
Routes of exposure: Inhalation, eye contact, skin contact, ingestion.
Symptoms related to the physical, chemical and toxicological characteristics:
Skin contact may result in inflammation characterized by itching, scaling, reddening, blistering, pain or dryness. Eye contact may result in redness, pain or severe eye damage. Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness or death.
Carcinogenicity
IARC: Not classified.
NTP: Not listed.
OSHA: Not listed.
Acute toxic effects: Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Not available.
Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility in soil: Not available.
Other adverse effects: Not available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of waste:

Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste.

US EPA guidelines for the classification determination are listed in 40 CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state and local regulations when disposing of the substance.

Disposal of packaging:

Do not reuse containers. Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

DOT (United States)

UN number: Not hazmat

Proper shipping name: Not available.

Transport hazard class: Not available.

Packing group: Not available.

IATA

UN Number: Not DG

Proper shipping name: Not available.

Transport hazard class: Not available.

Packing group: Not available.

SECTION 15. REGULATORY INFORMATION

TSCA (United States)

This product is on the EPA Toxic Substance Control Act (TSCA) inventory. The product is supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR § 720 et seq. The health risks have not been fully determined. Any information that is or becomes available will be supplied on the SDS.

California Proposition 65: Not Available..

NFPA Rating: Health: Not available.

Flammability: Not available.

Instability: Not available.

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.
