

Material Safety Data Sheet

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 Regulation (EC) No 1907/2006

1 - Product and Company Information

Product Name DIOCTYL SULFOSUCCINATE SODIUM SIGMAULTRA
 Product Number D4422

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2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT
 Harmful if swallowed. Irritating to skin. Risk of serious damage
 to eyes.

3 - Composition/Information on Ingredients

| Product Name | CAS # | EC no | Annex I Index Number |
|--|----------|-----------|-------------------------|
| BIS(2-ETHYLHEXYL) SULFOSUCCINATE SODIUM SALT | 577-11-7 | 209-406-4 | None |

Formula C20H37O7S.Na
 Molecular Weight 444.55 AMU
 Synonyms Aerosol GPG * Aerosol OT * Aerosol OT 75 *
 Aerosol OT-B * Alcopol O * Alphasol OT * Berol
 478 * Bis(ethylhexyl) ester of sodium
 sulfosuccinic aci * Bis-2-ethylhexylester
 sulfojantarano sodneho (Czech) *
 Bis(2-ethylhexyl)sodium sulfosuccinate *
 Bis(2-ethylhexyl) S-sodium sulfosuccinate *
 1,4-Bis(2-ethylhexyl) sodium sulfosuccinate *
 Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl)
 ester, sodium salt (9CI) * Celanol DOS 75 *
 Clestol * Colace * Complemix * Constonate *
 Coprol * Defilin * Di-(2-ethylhexyl) sodium
 sulfosuccinate * Dioctlyn * Dioctylal * Dioctyl
 ester of sodium sulfosuccinate * Dioctyl ester
 of sodium sulfosuccinic acid * Dioctyl-medo
 forte * Dioctyl sodium sulfosuccinate * Dioctyl
 sulfosuccinate sodium * Dioctyl sulfosuccinate
 sodium salt * Diomedicone * Diosuccin * Diotilan
 * Diovac * Docusate sodium * Doxinate * Doxol *
 D-S-S * Dulsvivac * Duosol * 2-Ethylhexyl
 sulfosuccinate sodium * Humifen WT 27G * Konlax
 * Kosate * Laxinate * Laxinate 100 * Manoxal OT
 * Manoxol OT * Mervamine * Modane soft * Molatoc

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US)

or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

| | | |
|-----------------------|---------------------------------------|----------------------------|
| Appearance | Physical State: Solid Color: White | |
| Property | Value | At Temperature or Pressure |
| pH | N/A | |
| BP/BP Range | N/A | |
| MP/MP Range | 173.0 - 179.0 °C | |
| Flash Point | N/A | |
| Flammability | N/A | |
| Autoignition Temp | N/A | |
| Oxidizing Properties | N/A | |
| Explosive Properties | N/A | |
| Explosion Limits | N/A | |
| Vapor Pressure | N/A | |
| Partition Coefficient | N/A | |
| Viscosity | N/A | |
| Vapor Density | N/A | |
| Saturated Vapor Conc. | N/A | |
| Evaporation Rate | N/A | |
| Bulk Density | N/A | |
| Decomposition Temp. | N/A | |
| Solvent Content | N/A | |
| Water Content | N/A | |
| Surface Tension | N/A | |
| Conductivity | N/A | |
| Miscellaneous Data | N/A | |
| Solubility | Solvent: 10 mg/ml MeOH | |

10 - Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulfur oxides.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

RTECS NUMBER: WN0525000

ACUTE TOXICITY

LD50
Oral
Rat
1900 mg/kg

LD50

Intraperitoneal
Rat
590 MG/KG
Remarks: Vascular:Structural changes in vessels.

LD50
Oral
Mouse
2643 mg/kg
Remarks: Behavioral:Somnolence (general depressed activity).

LD50
Intravenous
Mouse
60 MG/KG

IRRITATION DATA

Dog Rat
Remarks: No irritation effect

Skin
Rabbit
10 mg
24H
Remarks: Moderate irritation effect

Eyes
Rabbit
0.25 mg
Remarks: Mild irritation effect

Eyes
Rabbit
1 %
Remarks: Severe irritation effect

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: Causes severe eye irritation.
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion: Harmful if swallowed.

TARGET ORGAN INFORMATION

Large intestine. Small intestine.

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat
Dose: 8820 MG/KG
Route of Application: Oral
Exposure Time: (MULTIGENERATION)
Result: Effects on Newborn: Other postnatal measures or effects.

12 - Ecological Information

N/A

ECOTOXICOLOGICAL EFFECTS

Test Type: LC50 Fish

Species: Onchorhynchus mykiss (Rainbow trout)

Time: 96 h

Value: 28 mg/l

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xn

Harmful.

R-PHRASES: 22-38-41

Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes.

S-PHRASES: 26-39

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 2

ID-Number: 667

KBwS-Decision

16 - Other Information

WARRANTY

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. Sigma-Aldrich Inc., 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 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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