



# LAXACHEM ORGANICS PVT. LTD.

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## MATERIAL SAFETY DATA SHEET

### DOCUSATE SODIUM

#### 1. CHEMICAL IDENTIFICATION

Product Name : DOCUSATE SODIUM EP  
(Dioctyl Sodium Sulfosuccinate)

Manufacturer : M/s. Laxachem Organics Pvt. Ltd.

#### 2. PRODUCT COMPOSITION

Formula :  $C_{20}H_{37}NaO_7S$   
CAS : 577-11-7  
EC No. : 209 - 406 - 4

#### 3. HAZARD IDENTIFICATION

Harmful if swallowed.

Irritating to eyes, respiratory system and skin. In case of contact with eyes rinse immediately flush eyes with plenty of water and seek medical advice. Wear suitable protective clothing including suitable eye protection.

Target Organs : Small Intestine & Large Intestine. Only in case of prolonged exposure.

#### 4. FIRST AID MEASURES

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

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

If swallowed, wash out mouth with water provided person is conscious. Call for medical assistance. Wash contaminated clothing before use.



Cont ... 2

(2)

**MSDS : DOCUSATE SODIUM**

**5. FIRE PRECAUTIONS / FIRE FIGHTING**

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

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

Emits toxic fumes under fire conditions. Fumes of Carbon oxides and Sulphur oxides.

**6. ACCIDENTAL RELEASE**

Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

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 & STORAGE**

Ventilation : Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possible.

Storage : Store in well-closed containers in area suitable for any chemical storage area away from heat.

**8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

Wear chemical safety goggles and rubber gloves and approved respirator.

Avoid inhalation. Do not get in eyes, on skin or clothing.

Safety shower and eye bath. Wash thoroughly after handling. Store in cool and dry place.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Waxy white solid

Odour : Characteristic (Slight)

Solubility : Easily soluble in Methanol, alcohol, diethyl ether.  
Very slightly soluble in cold water.  
Partially soluble in hot water.



Cont ... 3

(3)

**MSDS : DOCUSATE SODIUM**

**10. STABILITY AND REACTIVITY**

Stability : The product is stable  
Incompatibles : Strong oxidizing agents.  
Corrosivity : Non-corrosive

Hazardous combustion  
or decomposition products : Toxic fumes of carbon monoxide, carbon dioxide,  
sulfur oxides.

**11. TOXICOLOGICAL INFORMATION**

Toxicological information for the product is found Section 3. HAZARDS IDENTIFICATION. Toxicological information on the WHMIS regulated components of this product is as follows :

Sodium dioctly sulfosuccinate (DSS) has an average oral (rat) LD50 of 3.1 g/kg, based on measured values of 1.9 g/kg, 3.08 g/kg. The dermal (rabbit) LD50 is > 10 g/kg. DSS has caused moderated skin and eye irritation in animals, to varying extents, depending on the formulation of the tested material (e.g. solid vs. solution), the tested concentration, and the exposure duration. Following 24-hour dermal application (rabbits) of 8-10 g/kg solid DSS, the only effect observed was mild erythema. In other rabbit skin irritation tests, the primary irritation score for 100% DSS was ~ 4 and that for 80% DSS with propylene glycol was ~ 3, both resulting in a moderate irritant classification. Solid DSS applied to the eyes of rabbits produced moderate irritation. Solutions of DSS appear to cause irritation at lower concentrations than the solid material. In rabbits, a concentration of 1% was the lowest reported effective dose necessary to produce slight dermal erythema and at concentration from 5 – 25% moderate dermal irritation occurred. Mild eye irritation in rabbits occurred following treatment with concentrations between 0.1 and 0.5% DSS. Humans appear to be less sensitive to DSS fir skin irritation. In humans, a concentration of 1% was the highest no-effect level observed for skin irritation following a 24-hr patch test. In a modified Draize – Shelanski repeat-insult patch test, DSS showed little evidence of irritation and no evidence of illicition an allergic response in human subjects. Results from a 90-day subacute oral diet (rat) study indicate a NOEL of 0.94 g/kg/day and results from a 6-month subchronic oral diet (rat) study indicate a LOEL of 0.87 g/kg/day. No indication of significant gross or microscopic adverse effects were reported. Chronic toxicity studies in rats (2-yr) and dogs (1-yr) also reported no significant adverse effects at the doses administered. No adverse effect on reproductive function or fetal development were observed in rats treated with DSS at 0.5 and 1.0% doses, which were not maternally toxic.



Cont ... 4

(4)

**MSDS : DOCUSATE SODIUM**

**12. ECOLOGICAL INFORMATION**

**LC50**

BLUEGILL, 96 HOUR : 37 mg/L  
TROUT 96 HOUR : 28 mg/L  
DAPHNIA, 48 HOUR : 36 mg/L

**BOD**

28 Day : 66.7%

**13. DISPOSAL CONDITIONS**

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**

Non-Regulated.

**15. REGULATORY INFORMATION**

Data not available

**16. OTHER INFORMATION**

Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the consumer to ensure that the information contained in the material safety data sheet is relevant to the product manufactured/handled or sold by him/them as the case may be. All the above information shall be used only as a guide. **M/s. Laxachem Organics Pvt. Ltd., Amravati** makes no warranties, expressed or implied, in respect of this document for any particular purpose and shall not be held liable for any damage resulting from handling or from contact with the above product.

