



MATERIAL SAFETY DATA SHEET

1. Chemical Product & Company Identification

Material name STEPANOL ME-DRY
Version # 25
Revision date 12-15-2009
Product code 0615
Chemical class Alkyl sulfate
Manufacturer Stepan Company
22 West Frontage Road
Northfield, IL 60093 USA
Emergency Medical 800-228-5635
Chemtrec 800-424-9300
Chemtrec Int'l 703-527-3887
General information General (847) 446-7500

2. Hazards Identification

Emergency overview May cause severe irritation to eyes and skin. May cause irritation of respiratory tract.
Potential health effects
Eyes Can cause severe eye irritation.
Skin This product may be severely irritating to the skin.
Inhalation Inhalation of dusts may cause respiratory irritation.
Ingestion Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

3. Composition / Information on Ingredients

Components	CAS #	Percent
_Sodium lauryl sulfate	151-21-3	> 93
_Lauryl alcohol	112-53-8	< 3.5
_Sodium sulfate	7757-82-6	< 3.5
_Sodium chloride	7647-14-5	< 2
_Water	7732-18-5	< 2

4. First Aid Measures

First aid procedures
Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin contact For skin contact flush with large amounts of water. Get medical attention if irritation develops or persists. Immediately take off all contaminated clothing. Wash clothing separately before reuse.
Inhalation If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion If ingestion of a large amount does occur, seek medical attention. Do NOT induce vomiting.

5. Fire Fighting Measures

Flammable properties Dusts may form an explosive mixture with air.
Extinguishing media
Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Protection of firefighters
Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal precautions	Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods for containment	Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Wear appropriate protective equipment and clothing during clean-up. Cover powder spill with plastic sheet or tarp to minimize spreading. Use clean non-sparking tools to collect absorbed material. Shovel into suitable container for disposal.

7. Handling and Storage

Handling	Avoid contact with skin and eyes. Avoid breathing dusts from this material. Wash hands thoroughly after handling.
Storage	Store in cool place. Keep in a well-ventilated place. Prevent electrostatic charge build-up by using common bonding and grounding techniques.

8. Exposure Controls / Personal Protection

Engineering controls	Use general ventilation. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.
Personal protective equipment	
General	Eye wash fountain and emergency showers are recommended.
Eye / face protection	Wear dust goggles.
Skin protection	Wear suitable protective clothing. Use impervious gloves.
Respiratory protection	If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

9. Physical & Chemical Properties

Color	White.
Physical state	Solid.
Form	Powder.
pH	8.5 - 11 @1% Aqueous
Boiling point	> 212 °F (> 100 °C)
Flash point	> 201 °F (> 93.9 °C) PMCC
Evaporation rate	Estimated slower than ethyl ether.
Flammability limits in air, upper, % by volume	NOT APPLICABLE.
Flammability limits in air, lower, % by volume	NOT APPLICABLE.
Vapor pressure	Not Determined or Unknown
Vapor density	Estimated lighter than air.
Specific gravity	0.48 g/ml
RVOC	0 %
Percent volatile	0 % estimated

10. Stability & Reactivity

Chemical stability	Stable at normal conditions.
Conditions to avoid	Dust may form explosive mixture in air.
Incompatible materials	Strong acids. Strong oxidizing agents
Hazardous decomposition products	Upon decomposition, this product emits oxides of sulfur, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Toxicological data

Product	Test Results
STEPANOL ME-DRY	Acute Dermal LD50 Rabbit: > 10000 mg/kg Acute Oral LD50 Rat: 800 - 2700 mg/kg

Components

Components	Test Results
_Sodium lauryl sulfate (151-21-3)	Acute Oral LD50 Rat: 1288 mg/kg Acute Other LD50 Mouse: 118 mg/kg Acute Other LD50 Rat: 118 mg/kg

* Estimates for product may be based on additional component data not shown.

Carcinogenicity Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.

12. Ecological Information

Ecotoxicological data

Product	Test Results
STEPANOL ME-DRY	LC50 Fish: 1.4 - 25 mg/l

* Estimates for product may be based on additional component data not shown.

Ecotoxicity Readily biodegradable.

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations. All wastes must be handled in accordance with local, state and federal regulations. Regulations vary.

14. Transport Information

Notes Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

15. Regulatory Information

Reportable Quantity There is no calculable reportable quantity (RQ) for this product.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely hazardous substance No
Section 311 hazardous chemical No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

_Sodium sulfate (7757-82-6)

Listed.

16. Other Information**Further information**

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratingsHealth: 2
Flammability: 1
Physical hazard: 0
Personal protection: X**NFPA ratings**Health: 2
Flammability: 1
Instability: 0**Disclaimer**

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Issue date

12-15-2009

MSDS Section ChangesComposition / Information on Ingredients: Ingredients
Regulatory Information: State regulations