1. Chemical Product & Company Identification

Material name: LATHANOL LAL POWDER
Version #: 17
Revision date: 01-04-2010
Product code: 0541
Chemical class: Sulfoacetate
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: WARNING
Product may form explosive dust/air mixtures if high concentration of product dust is suspended in air.
Product dust may be irritating to eyes, skin and respiratory system.

Potential health effects:
- Eyes: Dust or powder may irritate eye tissue. Prolonged or repeated contact may worsen irritation.
- Skin: Moderate skin irritation
- Inhalation: Inhalation of dusts may cause respiratory irritation.
- Ingestion: May be harmful if swallowed.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Lauryl Sulfoacetate</td>
<td>1847-58-1</td>
<td>64 - 85</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>10 - 18</td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td>7757-82-6</td>
<td>5 - 18</td>
</tr>
</tbody>
</table>

4. First Aid Measures

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

5. Fire Fighting Measures

Flammable properties: Dust accumulation from this product may present an explosion hazard in the presence of an ignition source. Fire hazard Class II Dust for National Electric Code (NFPA 70)

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


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 Avoid dust formation. Avoid the generation of dusts during clean-up. Do not create a powder cloud by using a brush or compressed air. 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 Guard against dust accumulation of this material. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in cool place. Keep in a well-ventilated place.

8. Exposure Controls / Personal Protection

Engineering controls Use explosion-proof equipment if high dust/air concentrations are possible. Keep formation of airborne dusts to a minimum. 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.

Class II Dust for National Electric Code (NFPA 70)

$P_{\text{max}} = 7.1$ bar

$K_a = 90$ bar m/s

Minimum Ignition Energy (MIE) = $> 1000$ mJ

Minimum Explosible Concentration (MEC) = 96 g/m3

Minimum Autoignition Temperature (MAIT Cloud) = 400 °C

Limiting Oxygen Concentration (LOC) = 15.2 vol. %

Mean particle size = 39 (85% < 75) micrometer

pH 6.3 @5% Aqueous

Flash point Not available.

Evaporation rate Not Applicable

Flammability limits in air, upper, % by volume NOT DETERMINED.

Vapor pressure Not Applicable

Vapor density Not applicable, powder.

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. Heat, flames and sparks.

Incompatible materials Strong oxidizing agents. This product may react with strong alkalis.

Hazardous decomposition products Upon decomposition, this product may yield sulfur dioxide and oxides of sulfur.

Possibility of hazardous reactions Will not occur.
11. Toxicological Information
Carcinogenicity  This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

12. Ecological Information
Not available.

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)  No
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)  No
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

16. Other Information
Further information  Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

HMIS® ratings
Health: 2
Flammability: 1
Physical hazard: 0
Personal protection: X

NFPA ratings
Health: 2
Flammability: 1
Instability: 0
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Issue date

01-04-2010

MSDS Section Changes

Physical & Chemical Properties: Form