

# MATERIAL SAFETY DATA SHEET

## BUTYL OLEATE DLC<sup>®</sup>-A

Date Reviewed: September 23, 2011

Page 1 of 4

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: Butyl Oleate DLC-A  
CHEMICAL NAME: Butyl Oleate on silica

Company:  NATROCHEM, INC.  
P.O. Box 1205  
Savannah, GA 31402-1205

| HMIS RATING  |   |
|--------------|---|
| Health       | 1 |
| Flammability | 1 |
| Reactivity   | 0 |

Telephone Numbers:

Transportation Emergencies:

CHEMTREC (U.S.A.): (800) 424-9300 (24 hours)

CHEMTREC (International): (202) 483-7616 (24 hours, call collect)

Product Information: (912) 236-4464 (EST, 8:00AM – 4:00PM M-F)

### SECTION 2 - INGREDIENTS

The component(s) listed below is identified as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

| INGREDIENT   | CAS REGISTRY |
|--------------|--------------|
| Butyl Oleate | 142-77-8     |
| Silica       | 112926-00-8  |

### SECTION 3 - PHYSICAL DATA

Boiling Point: 130 - 145° C @ 1 mm Hg

Vapor Pressure (mm Hg): Negligible

Vapor Density (Air = 1): N/A

Solubility in Water: Negligible

Appearance: Off-white, free flowing powder

Specific Gravity: 1.033

Percent Volatiles: N/DA

Evaporation Rate: N/A

Odor: mile fatty acid

### SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): 390° F (COC)

FLAMMABLE LIMITS: N/D

AUTOIGNITION TEMPERATURE: N/D

EXTINGUISHING MEDIA: Water fog, foam, CO2, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE & EXPLOSION HAZARDS: None known.

### SECTION 5 - PERMISSIBLE EXPOSURE LIMITS & TOXICITY

Silicon Dioxide: OSHA: 6 mg/m<sup>3</sup> (total dust), 8 hr. TWA; 29 CFR 1910.1000 (rev. 3/1/89). PPG Internal Permissible Exposure Limit (IPEL); Synthetic Precipitated Silicate: 5 mg/m<sup>3</sup> (respirable dust), 8 hr. TWA.  
Butyl Oleate: LD50 rat/oral: >5000 mg/kg.

---

**SECTION 6 - HEALTH HAZARD DATA**

---

**CHRONIC HEALTH EFFECTS:** An epidemiological study was conducted which included 165 precipitated silica workers who had been exposed for an average of 18 years. No adverse effects were noted in complete medical examination (including chest roentgenograms) of these workers. Pulmonary function decrements were correlated only with smoking and age but not with the degree or duration of dust exposure. Laboratory studies have also been conducted in small animals via inhalation to levels of precipitated silica dust of up to 126 mg/m<sup>3</sup> for periods from six months to two years. Although precipitated silica was temporarily deposited in the animal's lungs, most of the deposited material was cleared soon after the dust exposure ended. The results of all studies performed by, or known to, PPG indicate a very low order of pulmonary activity for synthetic precipitated silica.

**PRIMARY ROUTE OF ENTRY-** Inhalation, skin absorption, dust contact with eyes.

**CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:** None.

NTP: No

IARC: No

OSHA: No

**EFFECTS OF EXPOSURE-**

**EYES-** Mildly irritating. Excessive contact with powder can cause drying of mucous membranes of eyes due to absorption of moisture and oils.

**SKIN-** Absorption and mildly irritating.

**INHALATION-** Nuisance dust. Excessive contact with powder can cause drying of mucous membranes of nose and throat due to absorption of moisture and oils. This material can also cause nasal irritation and nosebleeds.

**INGESTION-** Not significantly toxic.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE-** Persons with breathing problems or lung disease should not work in dusty areas unless a physician approves and certifies their fitness to wear respiratory protection.

---

**SECTION 7 - EMERGENCY & FIRST AID PROCEDURES**

---

**EYE CONTACT:** Immediately rinse with clean water for 15 minutes. Retract eyelids often. If irritation persists, seek medical attention.

**SKIN CONTACT:** Immediately remove contaminated clothing. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes. Seek medical attention if ill effect or irritation develops.

**INHALATION:** If overcome by exposure, remove victim to fresh air.

**INGESTION:** Consult a physician.

---

---

**SECTION 8 - REACTIVITY DATA**

---

**STABILITY:** Stable. This product contains an antioxidant which makes it thermally stable. Caution is suggested however since the material has demonstrated instability without the presence of the antioxidant.

**MATERIALS TO AVOID-** Avoid alteration of product properties before reuse. Calcining, which may result in crystalline formation or mixing with additives may alter toxicological properties.

**CONDITIONS TO AVOID-** Avoid high temperatures (>800° C) treatment.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon.

**HAZARDOUS POLYMERIZATION:** Will not occur.

---

**SECTION 9 - SPILL OR LEAK PROCEDURES**

---

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** MINIMIZE SPILL AREA. Vacuum spill material and place in closed plastic bags for disposal.

**WASTE DISPOSAL METHOD:** In accordance with local, state, and federal regulations.

---

**SECTION 10 - SPECIAL PROTECTION INFORMATION**

---

**RESPIRATORY PROTECTION:** Use a respirator such as 3M 9900 or equivalent for protection against pneumoconiosis producing dusts.

**VENTILATION:** Provide explosion proof ventilation as required to control airborne dust levels. The sum total of all ingredients may emit vapors during normal processing. All possible health effects are not known and individual sensitivities will vary. Effective exhaust ventilation should always be provided to draw dust, fumes and vapors away from workers to prevent routine inhalation. Ventilation should be adequate to maintain ambient workplace atmosphere below the limits listed in Section V.

**PROTECTIVE GLOVES:** Impervious gloves to protect against contact with product.

**EYE PROTECTION:** Safety goggles.

**OTHER PROTECTIVE EQUIPMENT:** Protective clothing, eye wash station, safety shower.

---

**SECTION 11 - SPECIAL PRECAUTIONS**

---

**HANDLING AND STORAGE:** Handling can create explosive dust clouds. Eliminate ignition sources, use explosive proof equipment. Conveying and processing equipment should be spark-proof, well bonded and grounded. Avoid dust accumulations.

**OTHER PRECAUTIONS:** Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Launder contaminated clothing before reuse.

---

---

SECTION 12 - ENVIRONMENTAL INFORMATION

---

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

| CAS REGISTRY # | CHEMICAL NAME | PERCENT BY WEIGHT |
|----------------|---------------|-------------------|
|----------------|---------------|-------------------|

NONE.

This information must be included in all MSDS' that are copied and distributed for this material.

---

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUES:

Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102):

No RQ for product or any constituent greater than 1% or 0.1% (carcinogen).

Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-313):

No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).

---

Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312):

Silicon Dioxide- Acute Hazard - 28%

The components of this product are included on the TSCA Chemical Substance Inventory.

TRANSPORTATION: Not regulated.

---

---

SECTION XIII - OTHER INFORMATION

---

Revision Note: Review and reissue.

Prepared by: Craig Moore

---

N/A = Not applicable N/D = Not determined N/DA = No Data Available N/E = Not established

The information given in this MSDS was obtained from sources which we believe are reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, Natrochem, Inc. makes no warranty express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon.