



MATERIAL SAFETY DATA SHEET

DIDP DLC[®]-A

Date Revised: June 15, 2011

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1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: DIDP DLC[®] - A
SYNONYMNS: Ester plasticizer blended with silica
MANUFACTURED BY: NATROCHEM, INC.
P.O. Box 1205
Savannah, GA 31402-1205

For Product Information (8 a.m. to 4 p.m. Eastern time) telephone: 1-912-236-4464

Transportation Emergencies:

CHEMTREC (U.S.A.): (800) 424-9300 (24 hours)
CHEMTREC (International): (202) 483-7616 (24 hours, call collect)

2. COMPOSITION AND INFORMATION ON INGREDIENTS

<u>COMPONENT NAME</u>	<u>CAS#</u>	<u>PERCENT</u>
Di iso decyl phthalate	68515-48-0	72
Silicon Dioxide	112926-00-8	28
Contains no detectable crystalline silica (detection limit <0.01% by weight)		

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

CAUTION! Dust may be irritating to eyes and upper respiratory tract. Prolonged or repeated skin contact may cause irritation due to drying action.

Precautions: Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid prolonged, repeated or excessive inhalation. Use only with adequate ventilation. Ventilation must be sufficient to limit employee exposure to this product below permissible exposure limits. Wear respiratory protection when dust exposure is above permissible exposure limits. Wash thoroughly every day after work. Do not eat, drink or smoke in work area.

4. FIRST AID MEASURES

INHALATION: Remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

EYE CONTACT: Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room or physician as further treatment may be necessary.

SKIN CONTACT: Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room or physician as further treatment may be necessary.

INGESTION: Gently wipe or rinse the inside of the mouth with water. Sips of water can be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician for treatment information.

5. FIRE FIGHTING MEASURES

FLASH POINT: 491F

EXTINGUISHING MEDIA: water spray, foam or dry chemical

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing. Use water spray to cool surfaces exposed to the fire. Product can accumulate static charges, which can cause an incendiary electrical discharge.

6. ACCIDENTAL RELEASE MEASURES

Sweep up spilled material and place in a closed plastic bag for disposal. Dispose of in accordance with federal, state, and local regulations.

7. HANDLING AND STORAGE

Store in original packaging in a dry area. Keep container closed. When transferring material use proper grounding to avoid electrical sparks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: 8-hour Time Weighted Average (TWA); 15-minute Short-Term Exposure Limit (STEL)

OSHA: 6 mg/m³ (total dust) TWA.

ACGIH: 10 mg/m³ (total amorphous dust) TWA. 3 mg/m³ (respirable nuisance particulate) TWA.

RESPIRATORY PROTECTION: Use NIOSH approve dust filter respirator for exposure above permissible exposure limits. The respiratory use limitations made by NIOSH or the manufacturer must be observed.

VENTILATION: General or local exhaust sufficient to maintain employee exposure below permissible exposure limits.

EYE AND FACE PROTECTION: If eye exposure to powder is likely, use tight fitting protective goggles.

PROTECTIVE GLOVES: Cloth, leather or rubber.

OTHER PROTECTIVE EQUIPMENT: Boots, aprons, or chemical suits should be used when necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NA

SPECIFIC GRAVITY (Water = 1): 1.13

SOLUBILITY (wt.% in water): <0.10%

VAPOR PRESSURE: <0.01 kPa

PHYSICAL STATE: powder

COLOR: off-white

VAPOR DENSITY (Air=1): >1

FREEZING/MELTING POINT: NA

% VOLATILE: NA

EVAPORATION RATE: NA

ODOR: slight organic

10. STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY: Avoid calcining temperatures (>800°C) which may result in crystalline formation. Mixing with additives and alteration of product properties may alter toxicological properties. Avoid strong oxidizing agents.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS: None known.

11. TOXICOLOGICAL INFORMATION

SKIN IRRITATION: Mildly irritating.

EYE IRRITATION: Mildly irritating.

CARCINOGENICITY: This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, ACGIH, or OSHA.

EFFECTS OF OVEREXPOSURE:

ACUTE: Excessive contact with powder can cause drying of mucous membranes of nose, eyes, and throat due to absorption of moisture and oils. This material can also cause nasal irritation and nosebleeds. Eye contact with powder can result in mild irritation.

CHRONIC: An epidemiological study was conducted which included 165 precipitated silica workers who had been exposed an average time span of 8.6 years. Of these 165 workers, 44 had been exposed for an average of 18 years. No adverse effects were noted in complete medical examinations (including chest roentgenograms) of these workers. Pulmonary function decrements were correlated only with smoking and age but not with the degree of duration of dust exposures. Laboratory studies have also been conducted in small animals via inhalation to levels of precipitated silica dust of up to 126 mg/m³ per periods from six months to two years. Although precipitated silica was temporarily deposited in the animals' lungs, most of the deposited material was cleared soon after the dust exposure ended. The results of the studies performed by, or known to, PPG indicate a very low order of pulmonary activity for synthetic precipitated silica. PPG recommends that 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.

The ester plasticizer component of this product has been tested in a 2-generation toxicity study in laboratory animals. NO effects on reproductive parameters were seen. However, a small but statistically significant increase in early offspring mortality was seen at high oral doses. The significance of this is uncertain.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Do not allow product to reach ground water, water course or sewage systems.

EC₀: >1000 ppm (daphnia magna) (24-hour acute immobilization test) Silica: Slight to very low toxicity.

EC₀: >10,000 ppm (rainbow trout) (4-day static study) Silica: Slight to very low toxicity.

EC₀: >10,000 ppm (freshwater fish (96-hour static acute toxicity study) Silica: Slight to very low toxicity.

ENVIRONMENTAL FATE: No data at this time.

13. DISPOSAL INFORMATION

DISPOSAL METHOD:

Waste from this product may be disposed of in a sanitary landfill if state and local regulations permit. Care should be taken to avoid creation of dust during disposal operations.

14. TRANSPORT INFORMATION

Proper Shipping Name: Not DOT regulated

15. REGULATORY INFORMATION

USA TSCA: Synthetic amorphous silica is listed on the TSCA Inventory as its general CAS# 7631-86-9
EUROPE EINECS: Synthetic amorphous silica is listed on EINECS (231-545-4) as its general CAS# 7631-86-9
CANADA DSL: This product and/or all of its components are listed on the Canadian DSL.
AUSTRALIA AICS: All components of this product are listed on AICS.
KOREA ECL: All components of this product are listed on KECI.
JAPAN MITI (ENCS): All components of this product are listed on the ENCS.
PHILIPPINES PICCS: All components of this product are listed on the (PICCS).

SARA TITLE III:

SARA (311,312) Hazard Class: Silicon Dioxide – Acute Health Hazard.

SARA (313) Chemicals: Not listed.

SARA Section 302: Not listed as an Extremely Hazardous Substance.

CERCLA: Not listed.

16. OTHER INFORMATION

Revision Date: June 15, 2011

Revision Note: original issue

Prepared by: Craig Moore

NA = Not applicable ND = Not determined NDA = No Data Available NE = Not established

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