

MATERIAL SAFETY DATA SHEET
DAP DLC[®]-A

Date Revised: August 26, 2012

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: DAP DLC-A
CHEMICAL NAME: Phthalic Acid Diallyl Ester on silicon dioxide

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

HMIS RATING	
Health	2
Flammability	2
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 - COMPONENTS

COMPONENT NAME	CAS#
DAP	131-17-9
Silicon dioxide	112926-00-8

SECTION 3 - PHYSICAL DATA

Boiling Point: 157°C @760 mm Hg. (>581°F)	Specific Gravity: 1.284
Vapor Pressure (mm Hg): N/D	Percent Volatiles: 72
Vapor Density (Air = 1): N/DA	Evaporation Rate: N/DA
Solubility in Water: 0.4	Odor: Mild
Appearance: Off-white, free flowing powder	

SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): 166°C (330°F) (COC)
FLAMMABLE LIMITS: N/D
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing. Do not use a straight stream of water if the stream will scatter and spread the fire. Vapors are heavier than air and can flow a considerable distance along a surface to an ignition source and flash back. If it is impossible to remove the materials from the origin of fire, abundant water spray should be used to cool fire-exposed buildings or structures. Proper respiratory protection should be used to prevent breathing products of combustion and fumes of allylic compounds.

UNUSUAL FIRE & EXPLOSION HAZARDS: Fumes of allylic compounds, CO_x and aldehydes may be produced.

SECTION 5 - 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/m³ for 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 all studies performed by, or known to, PPG indicate a very low order of pulmonary activity for synthetic precipitated silica.

PRIMARY ROUTE OF ENTRY- Skin contact, eye contact and inhalation.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: None.

NTP: No

IARC: No

OSHA: No

EFFECTS OF EXPOSURE- liquid or vapor contact with eyes may cause stinging or corneal burns. Large contact and prolonged or repeated contact with the skin may cause irritation or cauterization.

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

SKIN- 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. Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

INGESTION- Expected to be slightly toxic thru oral ingestion.

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 6 - 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: Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

INGESTION: If swallowed, consult a physician.

SECTION 7 - REACTIVITY DATA

STABILITY: Stable.

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

CONDITIONS TO AVOID- Avoid sources of heat and ignition. Avoid high temperature treatment (>800° C).

HAZARDOUS DECOMPOSITION PRODUCTS: CO_x, aldehydes, and fumes of allylic compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 8 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: MINIMIZE SPILL AREA. Vacuum spilled material and place in closed plastic bags for disposal. Eliminate sources of heat and ignition.

WASTE DISPOSAL METHOD: Under the CERCLA/RCRA regulations in effect December 29, 1986 this product is not regulated as a hazardous waste or material. Therefore, it may be disposed of as an industrial waste in compliance with applicable local, state, and federal regulations.

SECTION 9 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use a NIOSH/MSHA approved 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: Chemical safety goggles.

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

SECTION 10 - 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. UV light or temperatures greater than 200° F can cause polymerization.

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

SECTION 11 - REGULATORY INFORMATION

TOXIC SUBSTANCE CONTROL ACT (TSCA): The components of this product are contained on the Inventory of the Toxic Substance Control Act.

CHEMICAL INVENTORIES:

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA

SARA TITLE III INFORMATION: SECTION 313 - TOXIC CHEMICALS: This product does not contain any toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40 CFR 372.

CAS REGISTRY #

CHEMICAL NAME

PERCENT BY WEIGHT

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

SECTION 311/312 - HAZARD CATEGORIES:

The physical and health hazard categories for this product are:

Name	Hazard	Percent
Silicon Dioxide	acute hazard	28

CERCLA:

This product does not contain any chemical subject to reporting as a CERCLA Hazardous Substance under 40CFR 372.

RCRA:

This product is not a hazardous waste as listed in 40CFR 261.33. It does not exhibit any of the hazardous characteristics listed in 40CFR 261 Subpart C.

TRANSPORTATION INFORMATION: Not regulated.
DOT Shipping Name: Not regulated.
DOT Identification Number: Not regulated.

SECTION 12 - OTHER INFORMATION

Review Date: August 26, 2013 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

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