



The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont
Material Safety Data Sheet

MICROPLANAR CMP3700M
EPM00139 Revised 21-JAN-2008

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Product Use

Tungsten CMP

Tradenames and Synonyms

MicroPlanar(R) CMP3700MDE(TM)
MicroPlanar(R) CMP3700M1Y(TM)

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont Air Products Nanomaterials LLC
2441 West Erie Drive
Tempe
Arizona
USA
85282

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside U.S 302-774-1000)
Transport Emergency : CHEMTREC 1-800-424-9300 (outside U.S
703-527-3887)
Medical Emergency : 1-800-441-3637 (outside U.S 302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
Colloidal Silica	7631-86-9	<5
Water	7732-18-5	>95

HAZARDS IDENTIFICATION

Potential Health Effects

A corrosivity screening test was performed and the results indicated that the mixture is not corrosive to skin.

<<<Colloidal Silica

SKIN CONTACT may cause skin irritation with discomfort or rash, and possibly skin burns. EYE CONTACT may cause eye irritation with discomfort, tearing, or blurring of vision. INHALATION may cause drying of mucous membranes and irritation of nose, throat, and lungs with nosebleeds, cough, difficulty breathing or shortness of breath. Based on

(HAZARDS IDENTIFICATION - Continued)

animal experiments, long term exposures to high doses could lead to pulmonary inflammation and subsequent development of chronic lung disease.

Colloidal Silica does not induce the lung effects associated with crystalline silica. Epidemiology studies have not shown any evidence of fibrosis in workers exposed to Amorphous Silica dust levels ranging from 2 to 7 mg/m³.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

No specific intervention is indicated as the compound is not likely to be hazardous by inhalation.

However, if exposed to fumes from overheating or combustion, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician if necessary.

SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians

Treat symptomatically as required by the condition of the patient.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : Not Flammable
Autoignition : Not Available
Flammable limits in Air, % by Volume
LEL : None
UEL : None

Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions

This material is not flammable. Use normal firefighting procedures for the area.

FIRE FIGHTING EQUIPMENT
Non-flammable.

HAZARDOUS COMBUSTION PRODUCTS
None

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Spill Clean Up

If material becomes dry, wet before removal. Contain spill with absorbent material. Transfer absorbent and other contaminated materials to a UN approved covered container for disposal. Consult with Federal, State, and local regulatory agencies to determine acceptable clean-up levels. Comply with Federal, State and local regulations on reporting releases.

HANDLING AND STORAGE

Handling (Personnel)

Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Wash clothing after use.

Storage

Store above 32 F (0 C)

(HANDLING AND STORAGE - Continued)

Keep in original closed containers.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation.

Personal Protective Equipment

EYE/FACE PROTECTION

Use safety glasses or chemical goggles.

RESPIRATORS

No respiratory protection is normally required. However, if material becomes dry and dust is present, use a NIOSH approved dust respirator.

PROTECTIVE CLOTHING

Prevent skin contact. Wear chemical resistant gloves.

Exposure Guidelines

Applicable Exposure Limits

Colloidal Silica

PEL (OSHA)	: 80 mg/m ³ / % SiO ₂ - 8 Hr TWA
AEL * (DuPont)	: 3 mg/m ³ , 8 & 12 Hr. TWA, respirable dust

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	: 212 F (100 C)
Freezing Point	: 32 F (0 C)
pH	: 3.5
Odor	: None.
Form	: Liquid Dispersion.
Color	: Milky, Orange.
Vapor Pressure	: Not Available
Vapor Density	: Not Available
Evaporation Rate	: Not Available
Specific Gravity	: 1-1.2

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

CONDITIONS TO AVOID
Freezing.

Decomposition

HAZARDOUS DECOMPOSITION
None known.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

>>>Colloidal Silica
Oral LD50: >10,000 mg/kg in rats

ECOLOGICAL INFORMATION

Ecotoxicological Information

<<<Colloidal Silica
96 hour LC50 - Fathead minnows: 5600 ppm

FATE
No information is available.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Incineration at a facility with proper Federal and State issued permits is the recommended method for disposal.

(DISPOSAL CONSIDERATIONS - Continued)

Container Disposal

Empty containers retain product residue. Observe all hazard precautions. Keep away from heat, sparks, and flames. Do not distribute, make available, or reuse empty containers except for storage and shipment of original product. Remove all hazardous product residue, and puncture or otherwise destroy empty containers before disposal. Consult 40 CFR, Parts 261 and 268 for guidance on disposal.

TRANSPORTATION INFORMATION

Shipping Information

DOT/IMO/IATA
Not Regulated.

REGULATORY INFORMATION

U.S. Federal Regulations

This product complies with TSCA inventory reporting requirements.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 Hazard Categories None

313

This product is not subjected to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION AND LIABILITY ACT)

Reportable Quantity(RQ): None

We recommend you contact local authorities to determine if there may be other local reporting requirements.

OTHER INFORMATION

NFPA, NPCA-HMIS

NPCA-HMIS Rating
Health : 1
Flammability : 0
Reactivity : 0

(Continued)

Additional Information

Exposure to MicroPlanar(TM) CMP3700M(TM) should be kept to the lowest level possible. This material is for industrial use. Use only under the supervision of a technically qualified individual.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : DuPont AirProducts Nanomaterials L.L. C
MSDS Coordinator
Telephone : 757-686-8663 or 919-248-5027

Indicates updated section.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS