



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

EPM00124 CoppeReady(R) Cu405
Revised 25-JUL-2008

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

Formula : SiO2
Molecular Weight : 60.08
CAS Name : Silica

Tradenames and Synonyms

Colloidal Silica

Company Identification

MANUFACTURER/DISTRIBUTOR

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

PHONE NUMBERS

Product Information : 1-800-441-7515(Outside the US
302-774-1000)
Transport Emergency : CHEMTREC1-800-424-9300(Outside the Us
703-527-3887
Medical Emergency : 1-800-441-3637(Outside the US
302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
Amorphous Silica	7631-86-9	5-20
Water	7732-18-5	81-89

HAZARDS IDENTIFICATION

Potential Health Effects

This product has not been tested as a whole for health effects. general information reported here is based on the health effects of the individual components of this mixture.

>>>Amorphous Silica

Inhalation may cause drying of mucous membranes and irritation of nose, throat, and lungs with nosebleeds,

(HAZARDS IDENTIFICATION - Continued)

cough, difficulty breathing or shortness of breath. Increased susceptibility to the effects of Amorphous Silica may be observed in persons with pre-existing disease of the lungs.

No adverse effects are expected from incidental skin contact with dust.

Eye contact may cause eye irritation with tearing, pain or blurred vision.

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

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

In case of contact, immediately wash skin with soap and water. 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

Activated charcoal mixture may be beneficial. Suspend 50 g activated charcoal in 400 mL water and mix well. Administer 5 mL/kg, or 350 mL for an average adult.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : Not Available

Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions

Wear self-contained breathing apparatus (SCBA) and full protective equipment.

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.

Ventilate spill area.

Initial Containment

Dike spill.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)

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

Handling (Physical Aspects)

Keep container tightly closed.

Storage

Store in a well ventilated place.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation.

Personal Protective Equipment

Wear coverall chemical splash goggles.

RESPIRATOR

Where there is potential for airborne exposure, wear appropriate NIOSH approved respiratory protection.

PROTECTIVE CLOTHING

Where there is potential for skin contact have available, and wear as appropriate, impervious gloves, apron, pants, and jacket.

Exposure Guidelines

Applicable Exposure Limits

Amorphous 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	: 100 C (212 F)
Form	: Liquid Dispersion.
pH	: 8.0-10.0
Odor	: None.
Color	: Milky, White.
Specific Gravity	: 1.0-1.2
Solubility in Water	: Silica Dispersion in water
Melting Point	: Dispersion in Water

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

(STABILITY AND REACTIVITY - Continued)

Incompatibility with Other Materials

Material may be perishable if frozen (possible non-hazardous irreversible silica agglomeration). DO NOT ALLOW TO FREEZE. Store at temperatures >40 degF.

Decomposition

Decomposition will not occur.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

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

ECOLOGICAL INFORMATION

Ecotoxicological Information

Amorphous Silica:
96 hour LC50 -
Fathead minnow: LC50: 5600 ppm

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

REGULATORY INFORMATION

U.S. Federal Regulations

All Ingredients in This Product are TSCA Listed/Reported.

(REGULATORY INFORMATION - Continued)

State Regulations (U.S.)

WARNING - SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO
CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM-

-1,4-Dioxane <0.000024%

-Formaldehyde <0.0006%

OTHER INFORMATION

Additional Information

CoppeReady(R) is a registered trademark of Ashland Inc.
licensed to DuPont Air Products Nanomaterials L.L.C.

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