



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

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Mazin(TM) SR300
EPM00017 Revised 10-JUL-2008

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

Formula : SiO₂
Molecular Weight : 60.08

Tradenames and Synonyms

Colloidal Silica
SR301

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont Air Products Nanomaterials LLC
2441 West Erie Drive
Tempe
Az
USA
85228

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the 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 the U.S.
302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
Amorphous Silica	7631-86-9	<45
Tetramethyl ammoniumhydroxide	75-59-2	1-5
Water	7732-18-5	>45

HAZARDS IDENTIFICATION

Potential Health Effects

Contact with the skin causes irritation. May be harmful if swallowed. Contact with the eyes may cause eye irritation. A corrosivity screening test was performed and the results indicated that the mixture is not corrosive to skin.

(HAZARDS IDENTIFICATION - Continued)

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

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.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : No Data 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 contact with eyes, skin, or clothing. Wash thoroughly after handling.

Do not take internally. Do not taste or swallow. Avoid breathing aerosols and mists (also dust from dried-down product). Wash contaminated clothing before reuse and before product dries.

Storage

Keep container tightly closed.

Do NOT allow to freeze. Store at temperatures >41 degF.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use with sufficient ventilation to keep employee exposure below recommended exposure limits.

Personal Protective Equipment

EYE/FACE PROTECTION

Wear coverall chemical splash goggles when possibility exists for eye and face contact due to splashing or spraying material.

RESPIRATORS

Wear NIOSH approved respiratory protection, as appropriate.

(EXPOSURE CONTROLS/PERSONAL PROTECTION - Continued)

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/m³ / % SiO₂ - 8 Hr TWA
AEL * (DuPont) : 3 mg/m³, 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)
Freezing Point : 0 C (32 F)
Solubility in Water : Dispersable in all proportions.
pH : 11.1-12.1
Form : Liquid
Color : Milky White
Density : 1.31-1.34 g/cm³

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

Material may be perishable if frozen (possible non-hazardous, irreversible silica agglomeration). Do NOT allow to freeze. Store at temperatures >5 deg C (41 deg F).

Decomposition

Decomposition will not occur.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

>>>Mazin(TM)SR300
Oral LD50, rat: 1750 mg/kg
Dermal LD50, rat: >2000 mg/kg

ECOLOGICAL INFORMATION

Ecotoxicological Information

There is no information available on Mazin(TM) SR300 product as a whole. Information given is for a component of Mazin(TM) SR300.

>>>Tetramethylammonium Hydroxide
Fish LC50 (96 hr): ~359 mg/L
Daphnia magna EC50 (48 hr): 3 mg/L
Algae EC50 (96 hr): 13-96 mg/L (pH= 8-11)

DISPOSAL CONSIDERATIONS

Waste Disposal

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

REGULATORY INFORMATION

U.S. Federal Regulations

This product complies with TSCA inventory reporting requirements.

State Regulations (U.S.)

WARNING - SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM- Nitrilotriacetic Acid </= 0.002%

OTHER INFORMATION

Additional Information

Mazin(TM) is a trademark of E.I. du Pont de Nemours and Company licensed to DuPont Air Products Nanomaterials L.L.C.

(Continued)

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 Air Products 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