



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) SR310  
EPM00051 Revised 10-JUL-2008  
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CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
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Material Identification

CAS Name : SILICA

Product Use

Silica Wafer Polishing

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont AirProducts Nanomaterials L.L.C  
Ruabon Works  
Cefn Mawr  
Wrexham  
United Kingdom  
LL14 3SL

PHONE NUMBERS

Product Information : +44 1978 820485  
Transport Emergency : +44 2871 861313  
Medical Emergency : +44 2871 861313

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COMPOSITION/INFORMATION ON INGREDIENTS  
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Components

Material	CAS Number	%
Amorphous Silica	7631-86-9	<20
Tetramethyl ammoniumhydroxide	75-59-2	1-5
Water	7732-18-5	>75

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HAZARDS IDENTIFICATION  
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Potential Health Effects

No adverse effects have been noted in regards to eye contact, skin contact, inhalation, and ingestion. A corrosivity screening test was performed and the results indicated that the mixture is not corrosive to skin.

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.

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FIRST AID MEASURES  
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## First Aid

## SKIN CONTACT

In case of contact, immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Call a physician. 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.

## INHALATION

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

Not a probable route. However, in case of accidental ingestion, call a physician.

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FIRE FIGHTING MEASURES  
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## Flammable Properties

Flash Point : No Data Available

## Extinguishing Media

Use media appropriate for surrounding material.

## Fire Fighting Instructions

None.

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ACCIDENTAL RELEASE MEASURES  
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## Safeguards (Personnel)

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

## (ACCIDENTAL RELEASE MEASURES - Continued)

## Spill Clean Up

Flush with water to chemical sewer.

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HANDLING AND STORAGE  
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## Handling (Personnel)

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

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.

Store at temperatures >41 F to avoid irreversible precipitation of silica.

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EXPOSURE CONTROLS/PERSONAL PROTECTION  
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## Engineering Controls

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

## Personal Protective Equipment

Have available and wear as appropriate: chemical splash goggles and rubber gloves. Where there is potential for inhalation exposure to product dust, mist, or aerosols in excess of applicable exposure limits, wear NIOSH/MSHA approved respiratory protection.

## Exposure Guidelines

## Exposure Limits

Mazin(TM) SR310

PEL (OSHA)

: None Established

TLV (ACGIH)

: None Established

AEL \* (DuPont)

: 2 mg/m<sup>3</sup>, 8 & 12 hr TWA, as respirable silica dust

## Other 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.

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PHYSICAL AND CHEMICAL PROPERTIES  
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## Physical Data

Boiling Point : 100 C (212 F)  
Solubility in Water : Dispersible  
pH : 11.1-12.1  
Form : Liquid.  
Color : Translucent  
Specific Gravity : 1.08-1.11

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STABILITY AND REACTIVITY  
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## Chemical Stability

No known hazardous instability.

## Incompatibility with Other Materials

Incompatible or can react with water reactive materials.

## Decomposition

No known hazardous decomposition.

## Polymerization

Polymerization will not occur.

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TOXICOLOGICAL INFORMATION  
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## Animal Data

>>>Mazin(TM) SR310  
Oral LD50: 3129 mg/kg in rats  
Dermal LD50: >2000 mg/kg in rats

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ECOLOGICAL INFORMATION  
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## Ecotoxicological Information

There is no information available on Mazin(TM) SR310 product as a whole. Information given is for a component of Mazin(TM) SR310.

>>>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)

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DISPOSAL CONSIDERATIONS  
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## Waste Disposal

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

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REGULATORY INFORMATION  
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## 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%

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OTHER INFORMATION  
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## 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.

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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.

(Continued)

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