



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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"SYTON" HT-50
EPM00045 Revised 12-JUN-2008

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"SYTON" is a registered trademark of DuPont.

CAS Name : SILICA

Tradenames and Synonyms

SILICON DIOXIDE
Syton 520
Syton 524

Company Identification

MANUFACTURER/DISTRIBUTOR
DuPont AirProducts Nanomaterials LLC
Ruabon Works
Cefn Mawr
Wrexham
LL14 3SL
United Kingdom

PHONE NUMBERS

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

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
AMORPHOUS SILICA	7631-86-9	35-55
WATER	7732-18-5	45-65

HAZARDS IDENTIFICATION

Potential Health Effects

HUMAN HEALTH EFFECTS:
This product has not been tested completely as a whole for health effects. Toxicity information is provided for the components to meet the requirements of OSHA's Hazard Communication standard 29 CFR 1910.1200.

Amorphous Silica
Overexposure by skin or eye contact may include skin

(HAZARDS IDENTIFICATION - Continued)

irritation with discomfort or rash; or eye irritation with discomfort, tearing, or blurring of 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 large amounts are inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable.

EYE CONTACT

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

INGESTION

No specific intervention is indicated as the compound is not likely to be hazardous by ingestion. However, if symptoms occur, consult a physician.

FIRE FIGHTING MEASURES

Flammable Properties

Will not burn.

Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions

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.

Accidental Release Measures

Flush with water to chemical sewer.

HANDLING AND STORAGE

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 "SYTON" dries.

Storage

Keep container tightly closed. Store at temperatures above 2 C (35 F) to avoid irreversible precipitation of silica.

EXPOSURE CONTROLS/PERSONAL PROTECTION

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

"SYTON" HT-50

PEL (OSHA) : None Established
TLV (ACGIH) : None Established
AEL * (DuPont) : 2 mg/m³, 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.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point : 100 C (212 F) @ 760 mm Hg For Water
Component water.
Vapor Pressure : 24 mm Hg @ 25 C (77 F)
48 mm Hg @ 38 C (100 F)
Vapor Density : Not Available
Melting Point : 0 C (32 F)
Evaporation Rate : <1 (Butyl Acetate=1.0)
Solubility in Water : Dispersible
pH : 9-11
Odor : Odorless
Form : Liquid
Color : Opalescent to Milky
Specific Gravity : 1.3-1.4

STABILITY AND REACTIVITY

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.

DISPOSAL CONSIDERATIONS

Waste Disposal

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

TRANSPORTATION INFORMATION

Shipping Information

DOT/IMO/IATA
Not Regulated.

Not hazardous per DOT, IMO, or IATA.

REGULATORY INFORMATION

U.S. Federal Regulations

This product complies with TSCA inventory reporting requirements.

OTHER INFORMATION

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