

# SAFETY DATA SHEET

## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Tris(tert-butoxy)silanol**

FORMULA:  $C_{12}H_{28}O_4Si$

CAS NO: 18166-43-3

SYNONYMS: Tri-tert-butyl hydrogen orthosilicate, tri-t-butoxysilanol

### MANUFACTURER:

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## SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Not classified as a hazardous substance according to the GHS

### NFPA Rating:

Health: 0 Flammability: 0 Reactivity: 0

### HMIS Rating:

Health: 0 Fire: 0 Reactivity: 0

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $C_{12}H_{28}O_4Si$

Molecular Weight: 264.43

| CHEMICAL NAME            | CAS#       | %   |
|--------------------------|------------|-----|
| Tris(tert-butoxy)silanol | 18166-43-3 | 100 |

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eyelids open. If irritation persists seek medical attention.

**SKIN EXPOSURE:** Wash off immediately with plenty of soap and water.

**INHALATION:** Remove victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. Seek medical attention.

**INGESTION:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

## SECTION 5 FIREFIGHTING MEASURES

### EXTINGUISHING MEDIA:

Suitable Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable N/A

### HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:

Carbon oxides, silicon oxides, t-butanol, and organic acid vapors

### ADVICE FOR FIRE FIGHTERS

Wear self contained breathing apparatus for fire fighting if necessary. Avoid contact with eyes and skin. Do not breathe fumes or inhale vapors.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Wear suitable protective clothing, gloves, eye, and face protection. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas.

### ENVIRONMENTAL PRECAUTIONS

Do not allow material to enter drains or allow to be released into the environment.

### METHODS AND MATERIALS

Avoid raising dust. Sweep up and place in a suitable, closed container for proper disposal.

## SECTION 7 HANDLING AND STORAGE

### PERSONAL PRECAUTIONS

Wear approved personal protective equipment. Ensure adequate ventilation. Normal measures for fire protection.

### CONDITIONS FOR SAFE STORAGE

Keep container tightly closed and store in a dry and well-ventilated area. Handle and store under inert gas. Moisture sensitive. Material decomposes slowly in contact with moist air or with water liberating t-butanol. Avoid contact with oxidizing agents.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Contains no substances with occupational exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATORY PROTECTION:** Use respirators and components tested and approved under appropriate government shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination or type ABEK respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

**EYE/FACE PROTECTION:** Chemical safety goggles.

**SKIN PROTECTION:** Compatible chemical-resistant gloves.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White solid

**MELTING POINT/ FREEZING POINT:** 63-65° C

**BOILING POINT:** 205-210° C

**AUTO-IGNITION TEMPERATURE:** Not available

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

**FLASH POINT:** >65° C (COC)

**VAPOR PRESSURE:** 0.4 mm @ 55° C

**RELATIVE DENSITY:** 0.92 gm/ml

**SOLUBILITY IN WATER:** Insoluble

**ODOR:** None

**FORMULA MASS:** 264.43

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Moisture. Material decomposes slowly in contact with moist air or with water liberating t-butanol.

**INCOMPATIBILITY:** Strong oxidizing agents, strong acids, and halogens.

**DECOMPOSITION PRODUCTS:** t-Butanol, organic acid vapors, and silicon dioxide.

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** No data available

**CARCINOGENICITY:** No components of this product at levels greater than or equal to 0.1% is identified as a carcinogen.

**RTECS:** Not available

## SECTION 12 ECOLOGICAL DATA

No data available

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of all product and materials according to the state, local, or national regulations.

## SECTION 14 TRANSPORTATION DATA

Not a dangerous good

## SECTION 15 REGULATORY INFORMATION

**SARA 302 COMPONENTS:** No chemicals in this material are subject to the reporting requirements.

**SARA 311/312:** Not listed.

**MASSACHUSETTS RIGHT TO KNOW:** No listed

**PENNSYLVANIA RIGHT TO KNOW:** Tris(t-butoxy)silanol

**NEW JERSEY RIGHT TO KNOW:** Tris(t-butoxy)silanol

**CALIFORNIA PROP. 65:** Not listed

## SECTION 16 OTHER INFORMATION

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, WONIK MATERIALS NORTH AMERICA LLC makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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**SDS DEPT.**