MATERIAL SAFETY DATA SHEET

Section 1 Chemical Product & Company Identification

Product Name: REOLOSIL (Hydrophobic Type: DM-Grade)
Manufacturer Name: Tokuyama Corp.
Silica & Derivatives Sales Department, Si Business Division

Section 2 Composition / Information on Ingredients

Mixture /Substance : Substance
Chemical Name : Hydrophobic Silicon Dioxide (amorphous)
Synonyms : Hydrophobic Silica, Surface treated Silica, Amorphous Fumed Silica
Cas No. : 68611-44-9
Dimetyldichlorosilane (Cas No.75-78-5), reaction product with silica
Chemical Formula : SiO₂ • n(CH₃)₂ • SiO
Ingredients and Composition : 100%
Other Contaminants : Trace Levels of Metallic Impurities
UN Number : None

Section 3 Hazards Identification

Classification : Group-3 (IARC)
Hazards : No significant target effects reported.

Section 4 First Aid Measures

Inhalation : Remove from exposure area to fresh air immediately.
Perform artificial respiration if necessary.
Get medical attention if necessary.
Skin Contact : Remove contaminated clothing and shoes immediately.
Wash with soap or mild detergent and large amount of water until no evidence of chemical remains (at least 15-20 minutes).
Get medical attention immediately.

Eye Contact : Wash eyes immediately with large amount of water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes).
Get medical attention immediately.
Ingestion : If vomiting occurs, keep head lower than hips to help prevent aspiration.
Get medical attention if needed.
Section 5 Fire Fighting Measures

Fire and Explosion Hazard: Negligible fire hazard when exposed to heat or flame.
Extinguishing Media: Use extinguishing agents appropriate for surrounding fire.
Firefighting: No acute hazard. Move container from fire area if possible.
Avoid breathing vapors or dusts.

Section 6 Accidental Release Measures

Occupational Spill: For large spills, sweep up with a minimum of dusting and place into suitable containers for reclamation or disposal.
Residue should be cleaned up using a high-efficiency particulate filter vacuum.

Section 7 Handling and Storage

Handling: Avoid breathing dust.
Avoid contact with eyes, skin or clothing.
Keep container tightly closed.
Wash thoroughly after handling.
Use only with adequate ventilation.
Storage: Observe all federal, state and local regulations when storing this substance.
Store in a dry place, keep container tightly closed when not in use.
Keep separated from incompatible substances.

Section 8 Exposure Controls / Personal Protection

Exposure Limits: 10 mg/m$^3$ ACGIH TWA (total particulate, < 1% quartz)
Ventilation: Provide local exhaust ventilation system to meet published exposure limits.
Eye Protection: Wear splash-proof or dust resistant safety goggles to prevent eye contact with this substance.

TOKU-CODE: SI-04 RELOOSIL (HydrophobicDM-Grade) Page 3/4
Clothing: Wear appropriate protective clothing and equipment to prevent repeated or prolonged skin contact with this substance.
Gloves: Protective gloves are recommended.
Respirator: The specific respirator selected must be based on contamination levels found in the work place, must not exceed the working limits of the respirator.

Section 9 Physical and Chemical Properties

Description: White Powder, odorless Molecular Weight: no data available
Boiling Point: 2,230 °C  Specific Gravity: no data available

Melting Point: > 1,600 °C  pH: 4.0 – 5.5 (4% aq. slurry)

Water Solubility: insoluble
Solvent Solubility: Soluble in hydrofluoric acid and molten alkali.

Section 10 Stability and Reactivity

Reactivity: Stable at normal temperatures and pressures.

Section 11 Toxicology Information

Acute Toxicity: LD$_{50}$ oral-rat > 5g/Kg (Degussa R972 data)
Carcinogen Status: IARC Group 3

Section 12 Ecological Information

Environmental Impact Rating: no data available

Acute Aquatic Toxicity: no data available

Section 13 Disposal Information

Observe all federal, state and local regulations when disposing of this substance.

**TOKU-CODE: SI-04 REOLOSIL (HydrophobicDM-Grade)**

Section 14 Transportation Information

No classification currently assigned.

Section 15 Regulation Information

Regulatory information with regard to this product in your country and in your region should be examined by your own responsibility.

Section 16 Other Information

The information herein is given in good faith, but no warranty, either express or implied, is made. To the best of our knowledge, the information contained herein is accurate. However, Tokuyama Corporation does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is made on the sole responsibility of the user.

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we make no warranty that these are all the hazards which exist. If you have any questions, please contact Tokuyama Corporation.