

410, SUNWOO BLDG, SEOCHO-DONG, SEOCHO-GU, SOUTH KOREA

MATERIAL SAFETY DATA SHEET

KUNSIL FS - 200

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : KUNSIL FS-200

Product Code : 903 Chemical Family : Silicon

Chemical Name2 : Silicon dioxide (amorphous)

Formula : SiO2

Relevant Applications : Adhesives, Unsaturated Polyester, Resins etc.

Manufacturer Name : Kunsil Silicones Industry

Address : 410, Sunwoo Bldg, Seocho-Dong, Seocho-Gu, South Korea

SECTION 2 - COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS # : Concentration
Silicone Di Oxide : 112945-52-5
Percentage (wt./wt.) : 100%

Form : Powder : White Odour : Odourless

Dust : May be irritating to the respiratory tracts

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

HMIS Hazard Rating : Health - 1 Flammability - 0 Physical Hazards - 0

Caution : Static ignition hazard. Avoid excessive breathing of airborne

dust.

Primary Route of Entry : Inhalation

POTENTIAL HEALTH EFFECTS:

Acute Inhalation : If exposure limits are exceeded, the respiratory tract may

become irritated and may cause shortness of breath, coughing, or chest tightness due to temporarily physically

overloading the lungs.

Chronic Inhalation: May aggravate existing respiratory conditions. May cause

dryness of mucous membranes of the respiratory intact.



410, SUNWOO BLDG, SEOCHO-DONG, SEOCHO-GU, SOUTH KOREA

Acute Skin Contact: May cause irritation and dryness.

Chronic Skin Contact: Repeated exposure may cause dermatitis due to drying of the skin

Eye Contact : May cause irritation, redness and tearing.

Ingestion: No known health effects

Symptoms of Over-exposure : Coughing, shortness of breath or irritation of the respiratory tract.

Medical Condition's: Skin and respiratory conditions, like dermatitis and asthma

Aggravated by

Exposure

SECTION 4 - FIRST AID MEASURES

First Aid for Eyes : Flush adequately with water to remove particles. If discomforts persist,

seeks medical advice.

First Aid for Skin : Wash withsoap and water. Apply moisturizing cream to replenish

moisture in the skin, if necessary.

First Aid for Inhalation

: Remove to fresh air if effects occur. If effects persists, seek medical

advice.

First Aid for

Ingestion

: No Specific Information.

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing

Media

: Water spray, dry powder, CO2 and Foam. Adapt fire extinguishing

measures to surroundings.

Do not use full force water jet in order to avoid dispersal and

spread of the fire.

Special Fire

: No specific information.

Fighting Procedures

Procedure for

: As in any fire, wear self-contained positive pressures breathing apparatus

Fire fighters (MSHA/NIOS approved or equivalent) and full protective gear.



410, SUNWOO BLDG, SEOCHO-DONG, SEOCHO-GU, SOUTH KOREA

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precaution : Use personal protective equipment's and follow emergency

procedures.

Environmental: Obey relevant, local, state provincial and federal laws &

Precautions regulations. Do not contaminate any lakes, streams, ponds, ground

water or soil. Do not allow entrance in sewage water, soil stretches of

water, groundwater and drainage systems.

Spill or Leak
Procedures

: Sweep and shovel or use properly grounded vacuum equipment. Do

so in a manner that minimizes airborne dust.

SECTION 7 – HANDLING AND STORAGE

Storage Temperature: 0°F (-17°C)/ 100°F (38°C)

(Min. / Max.)

Storage : Keep dry. Use adequate ventilation.

Handling: Avoid handling that will unnecessarily generate airborne dust.

Precautions Properly ground all material handling equipment to prevent static

charge.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters : 20 Millions of particles per cubic foot of air {Time Weighted Avg.: Z3}

Control Parameters: 0.8 mg/ m³ {Time Weighted Avg.: Z3}

The exposure limit is calculated from the equation, 80/%SiO2), using a value of 100% SiO2. Lower values of %SiO2 will give higher exposure

limits.

Personal Protection -

Respiratory: A respiratory program that meets OSHA 1910.134 and ANSI Z88.2 or **Protection** applicable federal/provincial requirements must be followed whenever

applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various

types of respirators.

Hand Protection: Use impermeable gloves.



410, SUNWOO BLDG, SEOCHO-DONG, SEOCHO-GU, SOUTH KOREA

Eye Protection: Wear safety glasses with the side shields. In case dust are formed, wear

close fitting protective goggles.

Skin and Body Protection

: A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) Requirement's, it is recommended that a hazard assessment in accordance with the OSHA PPE Standards (29CFR1910.132) be

conducted before using the product.

Hygiene Measures: When using, do not eat, drink or smoke. Wash face and/or hands

before break and end of work. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care.

Wash contaminated clothing before re-use.

Protective Measures : Handle in accordance with good industrial hygiene and safety practice. If there is a possibility of skin/eye contact, the indicated eye/ hand/body protection should be used. If the workplace threshold limit value is exceeded and/or the substance is released, use appropriate

respiratory protection.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Form : Powder

Colour : White

Odour : Odourless

Boiling Point : Not determined

Melting Point / Freeze Point : No data

Lower Explosion Limit : Not Applicable
Upper Explosion Limit : Not Applicable

Auto ignition Temperature : Not Applicable

pH: : 3.6 - 4.6 (suspension)

Water Solubility : Sparingly Soluble

Specific Gravity : 2.2 g/cm3 at 20°C

Bulk Density : 0.33 pounds/gallon

Vapor Pressure : Not Applicable



410, SUNWOO BLDG, SEOCHO-DONG, SEOCHO-GU, SOUTH KOREA

Vapor Density : Not Applicable.

Viscosity, dynamic : Not Applicable

SECTION 10 - REACTIVITY

Stability: Stable under normal conditions

Hazardous Polymerization: Product will not undergo hazardous polymerization.

Incompatibilities : A chemical reaction is possible with strong bases

or hydrofluoric acid.

Thermal Decomposition : At more than 2000°C

Hazardous Decomposition: Not Known

SECTION 11 - TOXICOLOGICAL INFORMATION

Product Oral Toxicity : LD 50 > 5000 mg/Kg (rats)

Product Inhalations

Toxicity

: LCO Rat: 0.148mg/l/4hr

Product Dermal Irritation : LD50 Rabbit: > 5000 mg/ kg

Eye Irritation: Rabbit: Not irritating (analogous OECD Method)

Carcinogenicity : No Negative Effects

Mutagenicity Effects : No Negative Effects

Human Experience: Silicosis or other product specific illness of the respiratory

tract have not been reported.

Repeated Dose Toxicity: No Negative effects on oral as well as Inhalation.

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity to Fish: LC50> 5000mg/l/96 hrs (OECD 203)

Toxicity in Aquatic

Invertebrates

: EC50 > 1000mg/l/24 Hr



410, SUNWOO BLDG, SEOCHO-DONG, SEOCHO-GU, SOUTH KOREA

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Method : This material is determined not to be a hazardous waste as

per RCRA standards, either by listing or characteristics. Disposer must comply with all federal, state and local laws.

Waste product may be sent to a landfill.

SECTION 14 – TRANSPORTATION INFORMATION

D.O.T. Shipping Name: Not classified as hazardous in the meaning of regulations.

Technical Shipping Name: Not Applicable

D.O.T. Hazard Class : Not Applicable

U.N./ N.A. Number : Not Applicable

Packing Group : Not Applicable

SECTION 15 – REGULATORY INFORMATION

OSHA Status : Hazardous, Nuisance dust

TSCA Status : All components are listed on TSCA inventory or

otherwise comply with TSCA requirements.

SARA Title III : No SARA Hazards

Section 313, Toxic Chemicals : None

Section 112, Clean Air Act : Minimum Hazardous Air Pollutant

State Regulatory Information : The chemicals are specifically listed or otherwise

regulated by individual states. For details on your regulatory requirements you should contact the

appropriate agency in your state.

Component Name/CAS Number: Not Known

Concentration State Code



410, SUNWOO BLDG, SEOCHO-DONG, SEOCHO-GU, SOUTH KOREA

SECTION 16 - OTHER INFORMATION

Reason for Issue : Changes made in Section 3, 8 and 15

Prepared By : Harry Christoper

Approved By : G.M. House

Title : Health, Safety & Environmental Manager

Approval Date : May 3, 2018

