



MATERIAL SAFETY DATA SHEET

SILICA GEL

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IDENTIFICATION

PRODUCT NUMBERS: 01xxx 02xxx 10xxx 11xxx 12xxx 13xxx 14xxx 15xxx 16xxx 17xxx 18xxx 19xxx 20xxx 21xxx 25xxx 26xxx 29xxx 30xxx 31xxx 32xxx 40xxx 41xxx 42xxx 43xxx 44xxx 46xxx 47xxx 49xxx 50xxx 52xxx 54xxx 55xxx 56xxx 57xxx 58xxx 59xxx 60xxx 61xxx 62xxx 63xxx 68xxx 69xxx 70xxx 71xxx 72xxx 73xxx 74xxx 75xxx 78xxx 79xxx 80xxx 81xxx 86xxx 87xxx 88xxx 89xxx 154xxx 155xxx 156xxx 157xxx 158xxx 159xxx MAGxxx MCxxx VWxxx Spec-xxx Spec-xxxF Maple2

CHEMICAL NAME: Silica gel **CHEMICAL FAMILY:** Inorganic Oxide

TRADE NAME: Amorphous Silica, Silicon Dioxide **FORMULA:** SiO₂

CAS #: 63231-67-4 **MOLECULAR WEIGHT:** 60.09

TOXICITY & HEALTH HAZARD DATA

COMPONENTS: Silica gel, 60-90% **TOXICITY DATA:** None established

CARCINOGENICITY: The materials are not listed (IARC, NTP, OSHA) as a cancer causing agent.

ROUTES OF ENTRY: Inhalation, Ingestion

ACGIH TLV / OSHA PEL: TLV = 10 mg total dust / m³. PEL = None established.

EXPOSURE SYMPTOMS: May be irritating to eyes on contact. Prolonged, repeated inhalation of large amounts of dust may irritate nasal lining, throat or respiratory system. Prolonged skin contact may cause irritation.

FIRST AID:
SKIN: Wash with soap and water. EYES: Immediately flush thoroughly with water for at least 15 minutes.
INHALATION: If large amounts are inhaled, remove to fresh air; give artificial respiration if breathing has stopped.
INGESTION: Drink 1-2 glasses of water or milk. If symptoms occur, seek medical attention.

PHYSICAL DATA

BOILING POINT (° C @ 760 mm Hg): N/A **VAPOR DENSITY (Air = 1):** N/A
MELTING POINT (° C): 1710°C **EVAPORATION RATE (BuAc = 1):** N/A
SPECIFIC GRAVITY (H₂O = 1): 2.2 **SOLUBILITY IN WATER (%):** Insoluble
VAPOR PRESSURE (mm Hg): N/A **APPEARANCE AND ODOR:** White powder, odorless
PERCENT VOLATILE BY VOLUME: N/A

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (° F): Non combustible **EXTINGUISHING MEDIA:** Water, foam, carbon dioxide, dry chemical
FLAMMABLE LIMITS LEL% / UEL%: N/A **SPECIAL FIRE FIGHTING PROCEDURES:** Avoid eye and skin contact.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS: None indicated.

REACTIVITY DATA

STABILITY: Stable



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CONDITIONS TO AVOID: Heating above 205°C may alter desiccant properties of silica gel.

INCOMPATIBILITIES: Hydrofluoric Acid

HAZARDOUS COMBUSTION PRODUCTS: None indicated **HAZARDOUS DECOMPOSITION PRODUCTS:** None indicated

HAZARDOUS POLYMERIZATION: Does not occur

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Sweep up or vacuum up.

WASTE DISPOSAL METHOD: Dispose in an approved landfill according to federal, state, and local regulations. Cover promptly to avoid blowing of loose dust.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

HANDLING AND STORAGE: Limit exposure to moist air to maintain quality of product. A dust mask is recommended

WORK AND HYGIENIC PRACTICES: Wash with soap and water before and after handling, or wear gloves, to avoid contaminating the product with skin oils. Do not take internally. Eye wash and safety equipment should be readily available.

SPECIAL PRECAUTIONS: For research and industrial use only.

REVISION

DATE: 4/10/97, 6/8/06, 4/29/15

NOTE: The first two or three digits of TLC plate catalog numbers represent the base adsorbent. The last three digits represent format, size and layer thickness.

N/A = Not available or not applicable

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