

Silica Gel

SECTION 1 :: PRODUCT IDENTIFICATION

INCI NAME: Hydrated Silica

TRADE NAME: Sil-GEL

Molecular Weight: 60.08

EMERGENCY INFORMATION: (24 hr) Chemtrec 1-800-424-9300

SECTION 2 :: DATA ON COMPONENTS

Ingredients	CAS No	Percent
Silica, Amorphous	7631-86-9	995.% - 100%

SECTION 3 :: HAZARDS IDENTIFICATION

INFORMATION PERTAINING TO PARTICULAR DANGERS FOR MAN AND

ENVIRONMENT: The product does not have to be labeled due to the calculation procedure of the General Classification guideline for preparations of the European Union in the latest valid version.

CLASSIFICATION SYSTEM: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

NFPA ratings (scale 0-4).

Health = 1

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0-4)

Health = 1

Fire = 0

Reactivity = 0

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SECTION 4 :: FIRST AID MEASURES

AFTER INHALATION: Supply fresh air; consult doctor in case of complaints.

AFTER SKIN CONTACT: May cause irritation with dryness and abrasion. Immediately rinse with water. If skin irritation occurs, consult a doctor.

AFTER EYE CONTACT: May cause irritation, redness and pain. Immediately flush eye with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. If symptoms occur, consult a doctor.

AFTER SWALLOWING: Give several glasses of water to drink to dilute. If large amount were swallowed, get medical advice. If symptoms occur consult doctor.

SECTION 5 :: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING AGENTS: CO₂, extinguishing powder or water spray.
Fight larger fire with alcohol resistant foam. Use fire fighting measures that suit the environment.

PROTECTIVE EQUIPMENT: Wear protective equipment.

ADDITIONAL INFORMATION: Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6 :: ACCIDENTAL RELEASE MEASURES

PERSON-RELATED SAFETY PRECAUTIONS: Avoid formation of dust. Wear protective clothing.

MEASURES FOR ENVIRONMENTAL PROTECTION: Sweep up and containerize for reclamation or disposal.

MEASURES FOR CLEANING/COLLECTING: Vacuuming or wet sweeping may be used to avoid dust dispersal. Dispose of the collected material according to regulations.

ADDITIONAL INFORMATION:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment

See Section 13 for disposal information.

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SECTION 7 :: HANDLING AND STORAGE

HANDLING

INFORMATION FOR SAFE HANDLING: Prevent formation of dust.

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES: The product is not flammable. When pouring powder into a container of flammable liquid, ground both containers electrically to prevent a static electric spark.

STORAGE

REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:

No special requirements

INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY:

No special requirements

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

Keep receptacle tightly sealed.

CLASS ACCORDING TO REGULATION ON FLAMMABLE LIQUIDS:

None applicable.

SECTION 8 :: EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE

7631-86-9 amorphous silicon dioxide, chemically prepared

IDLH Short-term value: 3000 mg/m³

NIOSH Immediately Dangerous to Life and Health

PEL 80/% mg/m³ / %SiO₂

OSHA TWA for amorphous silica

REL 6 mg/m³

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NIOSH TWA

TLV 10* 5** mg/m3

ACGIH TWA *Total Dust** Respirable fraction

PERSONAL PROTECTIVE EQUIPMENT

GENERAL PROTECTIVE AND HYGIENIC MEASURES: The usual precautionary measures for handling chemicals should be followed.

BREATHING EQUIPMENT: If exposure limit is exceeded, a suitable respiratory protective device is recommended.

PROTECTION OF HANDS: The glove material has to be impermeable and resistant to the product, the substance and the preparation.

EYE PROTECTION: Safety glasses

BODY PROTECTION: Protective work clothing.

SECTION 9 :: PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

Form: Powder

Color: White

Odor: Odorless

Solubility: Insoluble in water.

Specific Gravity: 2.20

pH: 3.0 – 8.0

Boiling Point: 2230 C

Melting Point: 1610 C

CHANGE IN CONDITION

Melting Point/Melting Range: Undetermined

FLASH POINT: Not applicable

AUTO IGNITING: Product is not self-igniting.

DANGER OF EXPLOSION: Product does not present an explosion hazard.

DENSITY AT 20°C (68°F): 4-8 lbs/ft3

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SECTION 10 :: STABILITY AND REACTIVITY

THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED: No decomposition if used according to specifications.

DANGEROUS REACTIONS: Reacts with Hydrogen fluoride

DANERGOUS PRODUCTS OF DECOMPOSITION: No dangerous decomposition products known.

SECTION 11 :: TOXICOLOGY INFORMATION

ACUTE TOXICITY

LD/LC 50 values that are relevant for classification

7631-86-9 amorphous silicon dioxide, chemically prepared

Oral LD50 10000 mg/kg (rat)

Dermal LD50 >5000 mg/kg (rabbit)

OECD 402

Inhalative LC50 0.139 mg/l/14h (rat)

PRIMARY IRRITANT EFFECT

ON THE SKIN: May cause irritation with dryness and abrasion.

IN THE EYE: May cause abrasion, redness and pain.

SENSITIZATION: No sensitizing effects known.

SUBACUTE TO CHRONIC TOXICITY: Amorphous silicon dioxide, chemically prepared:

No negative effects were determined during tests for chronic oral toxicity, carcinogenicity, teratogenicity and fertility. No irreversible changes and no symptoms of silicosis were determined during tests for chronic inhalative toxicity.

ADDITIONAL TOXICOLOGICAL INFORMATION: The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any

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harmful effects according to our experience and the information provided to us.

12. ECOLOGICAL INFORMATION

INFORMATION ABOUT ELIMINATION (PERSISTENCE AND DEGRADABILITY)

OTHER INFORMATION: Amorphous silica dioxide is chemically and biologically inert.

EXOTOXICAL EFFECTS:

AQUATIC TOXICITY:

FISH TOXICITY:

7631-86-9 amorphous silicon dioxide, chemically prepared
LC50 (96 h) >10000 mg/l (Brachydanio rerio)
OECD 202

WATER FLEA TOXICITY:

7631-86-9 amorphous silicon dioxide, chemically prepared
EC50 (24 h) >1000 mg/l (Daphnia magna)
OECD 202

GENERAL NOTES: Generally not hazardous for water

SECTION 13 :: DISPOSAL CONSIDERATIONS

RECOMMENDATION: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 :: TRANSPORT INFORMATION

TRANSPORT/ADDITIONAL INFORMATION:

Not regulated as hazardous goods by DOT, ADR, IMO or IATA.

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SECTION 15 :: REGULATIONS

SARA

SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES): None of the ingredients are listed.

SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS): None of the ingredients are listed.

TSCA (TOXIC SUBSTANCES CONTROL ACT): All ingredients are listed.

PROPOSITION 65

CHEMICALS KNOWN TO CAUSE CANCER: None of the ingredients are listed.

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY: None of the ingredients are listed.

CARCINOGENICITY CATEGORIES

EPA (ENVIRONMENTAL PROTECTION AGENCY): None of the ingredients are listed.

IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER): None of the ingredients are listed.

NTP (NATIONAL TOXICOLOGY PROGRAM): None of the ingredients are listed.

TLV (THRESHOLD LIMIT VALUE ESTABLISHED BY ACGIH): None of the ingredients are listed.

MAK (GERMAN MAXIMUM WORKPLACE CONCENTRATION): 7631-86-9
Amorphous silicon dioxide, chemically prepared. Ja

NIOSH-Ca (NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH):
None of the ingredients are listed.

OSHA-Ca (OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION): None of the ingredients are listed.

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CANADIAN DSL: All ingredients are listed.

CANADIAN NDSL: None of the ingredients are listed.

JAPAN ENCS: All ingredients are listed.

KOREA ECL: All ingredients are listed.

PHILLIPPINES: PICCS: All ingredients are listed.

AUSTRALIA: AICS: All ingredients are listed.

EUROPEAN EINECS: All ingredients are listed.

PRODUCT RELATED HAZARD INFORMATION: Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations according to directives on hazardous materials.

16. OTHER INFORMATION

Disclaimer

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