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**FOR CHEMICAL EMERGENCY
CALL (800) 424-9300 24 HRS.**

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: PART #23, Thixotropic Silica

SECTION 2 – DATA ON COMPONENTS

- **Chemical characterization:** Substance.
- **Description:**

CAS NO. AND LIST OF COMPONENTS

7631-86-9 Amorphous Silicon Dioxide, Chemically Prepared

CAS No. & List of Components None

SECTION 3 – HAZARDS IDENTIFICATION

HAZARD DESCRIPTION: None

INFORMATION PERTAINING TO PARTICULAR DANGERS FOR MAN AND ENVIRONMENT: Not Applicable

CLASSIFICATION SYSTEM:

NFPA ratings (scale 0-4).

Health = 1
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0-4)

Health = 1
Fire = 0
Reactivity = 0

WHMIS classification: uncontrolled product according to WHMIS classification criteria.

Additional information: The product is very absorbent and may have a drying effect on skin and eyes. When exceeding the OEL (Occupational Exposure Limit) a mechanical overburdening of the respiratory system is possible.

SECTION 4 – FIRST AID MEASURES

GENERAL INFORMATION: Take care of the following instructions.

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

AFTER SKIN CONTACT: Generally the product does not irritate the skin. Wash with water.

AFTER EYE CONTACT: Flush opened eye with large quantities of water for at least 15 minutes. If symptoms persist, consult a doctor.

AFTER SWALLOWING: If symptoms persist consult a doctor.

SECTION 5 – FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING AGENTS: 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: Wear protective clothing.

MEASURES FOR ENVIRONMENTAL PROTECTION: No special measures required.

MEASURES FOR CLEANING/COLLECTING: Vacuuming or wet sweeping may be used to avoid dust dispersal.

ADDITIONAL INFORMATION:
No dangerous substances are released.

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment
See Section 13 for disposal information.

SECTION 7 - HANDLING AND STORAGE

HANDLING

INFORMATION FOR SAFE HANDLING:

Prevent formation of dust.

Keep receptacles tightly sealed.

Provide suction extractors if dust is formed.

Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.

Prevent static electric sparks.

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES:

Protect against electrostatic charges. The product is not flammable.

STORAGE

REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:

No special requirements

INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY:

Store away from foodstuffs.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

Keep receptacle tightly sealed. Store in dry conditions. This product is hygroscopic.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems: No further data, see time 7

COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE

7631-86-9 amorphous silicon dioxide, chemically prepared

PEL 80/ (%SiO₂) mg/m³
OSHA TWA for amorphous silica
REL 6 mg/m³
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 the OEL value is exceeded.
Filter P2.

PROTECTION OF HANDS: Protective Gloves.

EYE PROTECTION: Safety glasses

BODY PROTECTION: Protective work clothing

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

Form: Powder
Color: White
Odor: Odorless

CHANGE IN CONDITION

Melting Point/Melting Range: 1610°C (2930°F)
Boiling point/Boiling range: 2230°C (4046°F)

FLASH POINT: Not applicable

FLAMMABILITY (solid, gaseous): Product is not flammable.

AUTO IGNITING: Product is not self-igniting.

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

VAPOR PRESSURE AT 20°C (68°F): --hPa

DENSITY AT 20°C (68°F): 2.17 – 2.20 g/cm³

Bulk density at 20°C(68°F): 70 – 600 kg/m³

SOLUBILITY IN/MISCIBILIY WITH WATER: Insoluble

pH-VALUE AT 20°C (68°F): 4.0 – 9.0

Viscosity:

Dynamic at 20°C (68°F): --mPas

SECTION 10 – STABILITY AND REACTIVITY

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

MATERIALS TO BE AVOIDED:

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	>5110 mg/kg (rat) IUCLID Dataset 18-Feb-2000 OECD 401
Dermal	LD50	>5000 mg/kg (rabbit) IUCLID Dataset 18-Feb-2000 OECD 402
Inhalative	LC50	0.139 mg/l/14h (rat) IUCLID Dataset 18-Feb-2000 OECD 403

PRIMARY IRRITANT EFFECT

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

IN THE EYE: Irritating effect.

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

SECTION 12 – ECOLOGICAL INFORMATION

INFORMATION ABOUT ELIMINATION (PERSISTENCE AND DEGRADABILITY)

OTHER INFORMATION: Amorphous silica dioxide is chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process.

EXOTOXICAL EFFECTS:

AQUATIC TOXICITY:

FISH TOXICITY:

7631-86-9 amorphous silicon dioxide, chemically prepared
LC50 (96 h) >10000 mg/l (Brachydanio rerio)
OECD TG 203

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

PRODUCT:

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

DOT regulations:
Hazards class:

Land transport ADR/RID (cross-border):
ADR/RID class:

Maritime transport IMDG:
IMDG Class:

Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class:

Transport/Additional information:
Not regulated as hazardous goods by DOT, ADR, IMO, or IATA.
GRACE: Cargo aircraft only.

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 FOR FEMALES: None of the ingredients are listed.

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

CHEMICALS KNOWN TO CAUSE DEVELOPEMENTAL 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.

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.

CANADIAN DSL: All ingredients are listed.

CANADIAN NDSL: None of the ingredients are listed.

EUROPEAN EINECS: All ingredients are listed.

PHILLIPPINES INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES PICCS:

All ingredients are listed.

INVENTORY OF THE EXISTING CHEMICAL SUBSTANCES MANUFACTURED OR

IMPORTED IN CHINA IECSC: All ingredients are listed.

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCE LIST AICS: All ingredients are listed.

EXISTING AND NEW CHEMICAL SUBSTANCE LIST: All ingredients are listed.

KOREAN EXISTING CHEMICAL INVENTORY KECI: 7631-86-9 Amorphous silicon dioxide, chemically prepared.

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.

Safety phrases:

29 Do not empty into drains.

National regulations:

Disturbance regulations: Breakdown regulations, annex: not mentioned

SECTION 16 - COMMENTS

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with **Fibre Glast Developments Corporation** or not.

Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.