



**MATERIAL SAFETY DATA SHEET
(U.S.A)**

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SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material/Product Name(s): Nutec Fibratec Rigidizer 2300 and 2700.
Chemical family: Inorganic liquid hardening Agent
Synonyms: Synthetic vitreous fiber (SVF), man made vitreous fiber (MMVF), man made mineral fiber (MMMf), Calcium – magnesium - silicate fiber (CMS).

Manufacturer/Supplier: Nutec Fibratec, S.A. de C.V.
Carretera Saltillo – Monterrey #100 (km 62.5)
66359 Santa Catarina N.L., México
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SECTION 2. INGREDIENTS/COMPOSITION

Material or Component	*CAS No.	%
Silica, Colloidal	7631-86-9	30-60
Water	N.A.	70-40

*Chemical Abstract Service Number (CAS)

Nutec recommends an exposure limit of one (1) fiber per cubic centimeter for respirable fiber as an 8-hour time weighted exposure. Fiber concentration is determined by time weighted air samples collected and analyzed using NIOSH Method 7400 ("B" counting rules).

*The listed oxides do not exist as separate or crystalline compounds, but exist in an amorphous, glassy phase. Glasses are a class of materials made from silicon dioxide and other metal oxides that solidify from the molten state without crystallization.

SECTION 3. HAZARDS IDENTIFICATION

****EMERGENCY OVERVIEW****

CAUTION

May cause irritation with prolonged contact.

Do not get in eyes, on skin, on clothing. Do not take internally. Flush affected area with water. Wear suitable protective clothing. Protect product from freezing.

Not flammable or combustible.



EMERGENCY OVERVIEW:

Exposure to glass fibers sometimes causes irritation to the skin and, less frequently, irritation to the eyes, nose, or throat. This is not an allergic reaction, but simply a mechanical irritation. Skin irritation typically is experienced by individuals who are newly exposed to fibrous glass and it usually diminishes after several days of exposure. Good personal and industrial hygiene practices minimize the amount of discomfort.

Eye contact: May cause irritation with prolonged contact.

Skin contact: May cause irritation with prolonged contact.

Ingestion: Not a likely route of exposure. May be harmful if swallowed.

Inhalation: Not a likely route of exposure. Aerosols or product mist may irritate the upper respiratory tract.

Medical conditions which may be aggravated by contact: Inhalation of fiber/dust may aggravate existing chronic lung conditions such as, but not limited to, bronchitis, emphysema, and asthma.

SECTION 4. FIRST AID MEASURES

Eye contact: Flush eyes, including under the eyelids, with large amounts of water. If irritation persists, seek medical attention.

Skin contact: Wash affected areas with mild soap and water, using a skin cream or lotion after washing may be helpful.

Inhalation: Remove victim from adverse environment to fresh air.

Ingestion: Ingestion is an unlikely route of exposure. If ingested in sufficient quantity and victim is conscious, give 1-2 glasses of water or milk. Never give anything by mouth to an unconscious person. Leave decision to induce vomiting to qualified medical personnel, since particles may be aspirated into the lungs. Seek immediate medical attention.

SECTION 5. FIRE FIGHTING MEASURES

NFPA codes: **Flammability:** 0, **Health:** 1, **Reactivity:** 0, **Special:** 0.

Fire and Explosion: Product is not combustible.

Extinguishing Media: Use extinguishing media appropriate to combustibles in area of fire.

Firefighting instructions: Firefighters should wear NIOSH-approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Restrict access to area as appropriate until clean-up operations are complete. Stop or reduce any leaks if it is safe to do so. Do not touch spilled material. Ventilate spill area if possible. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection).

Methods for Cleaning Up:

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area.



LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

SECTION 7. HANDLING AND STORAGE

Handling: Avoid eye and skin contact. Do not take internally. Ensure all containers are labeled. Keep the containers closed when not in use.

Storage Conditions: Store the containers tightly closed. Protect product from freezing.

Unsuitable Construction Material: Aluminum

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits: This product contains amorphous, colloidal or fumed silica. Should the product become dried or misted such that inhalation of the material is possible, standard hygiene practices should be utilized to ensure that exposure to respirable particles is within the regulated limits.

ACGIH/TLV:
Substance(s)
Amorphous Silica TWA: 10 mg/m3 (total dust)

OSHA/PEL:
Substance(s)
Amorphous Silica TWA: 6 mg/m3

Engineering Measures: General ventilation is recommended. Local exhaust ventilation may be necessary when dusts or mists are generated.

Respiratory Protection: Respiratory protection is not normally needed. If significant mists, vapors or aerosols are generated an approved respirator is recommended: HALF-FACE MASK WITH PURPLE CARTRIDGE.

Hand Protection: Neoprene gloves, Nitrile gloves, Butyl gloves, PVC gloves

Skin Protection: Wear standard protective clothing.

Eye Protection: Wear chemical splash goggles.

Hygiene Recommendations: Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

Human Exposure Characterization: Based on our recommended product application and personal protective equipment, the potential human exposure is: Low

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid	APPEARANCE	Bluish white
ODOR	None	SPECIFIC GRAVITY	1.29 - 1.30 @ 77 °F/25 °C
DENSITY	10.7 - 10.8 lb/gal	SOLUBILITY IN WATER	Dispersible
VISCOSITY	20 cps	BOILING POINT	212 °F / 100 °C

Note: These physical properties are typical values for this product and are subject to change.



SECTION 10. STABILITY AND REACTIVITY

Stability: This product is stable under normal conditions. Not hazardous polymerization will occur. Must not be under freezing temperature.

Materials to Avoid: Contact with strong acids (e.g. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) may generate heat, splattering or boiling and toxic vapors.

Hazardous Decomposition Products:

Under fire conditions: None known

SECTION 11. TOXICOLOGICAL INFORMATION

Test Descriptor Product

Acute Oral Toxicity:

Rating: Non-Hazardous

Primary Skin Irritation:

Rating: Minimally irritating

Primary Eye Irritation:

Rating: Minimally irritating

Carcinogenicity:

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

Human Hazard Characterization:

Based on our hazard characterization, the potential human hazard is: Low

SECTION 12. ECOLOGICAL INFORMATION

No data available on any adverse ecological effects from this material.

SECTION 13. DISPOSAL INFORMATION

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non-hazardous waste, it is not subject to federal regulation. Consult state or local regulation for any additional handling, treatment or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal or recycling facility.

SECTION 14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.



LAND TRANSPORT:

Proper Shipping Name:

PRODUCT IS NOT REGULATED DURING TRANSPORTATIO

AIR TRANSPORT (ICAO/IATA):

Proper Shipping Name:

PRODUCT IS NOT REGULATED DURING TRANSPORTATIO

MARINE TRANSPORT (IMDG/IMO):

Proper Shipping Name:

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

SECTION 15. REGULATORY INFORMATION

NATIONAL REGULATIONS, USA:

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our hazard evaluation, the following substance in this product is hazardous:

Colloidal Silica: Non-Hazardous

CERCLA/SUPERFUND, 40 CFR 117, 302: Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312, AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):

This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370): Our hazard evaluation has found that this product is not hazardous under 29 CFR 1910.1200.

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372) :

This product does not contain substances on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA) :

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR 116.4 / formerly Sec. 311:

None of the substances are specifically listed in the regulation.

CLEAN AIR ACT, Sec. 111 (40 CFR 60, Volatile Organic Compounds), Sec. 112 (40 CFR 61, Hazardous Air Pollutants), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances) : None of the substances are specifically listed in the regulation.

CALIFORNIA PROPOSITION 65:

This product does not contain substances which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS:

None of the substances are specifically listed in the regulation.



STATE RIGHT TO KNOW LAWS:

The following substances are disclosed for compliance with State Right to Know Laws:

Colloidal Silica 7631-56-9

NATIONAL REGULATIONS, CANADA:

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS):

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS CLASSIFICATION:

Not considered a WHMIS controlled product.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

SECTION 16. OTHER INFORMATION

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

The human risk is: Low

The environmental risk is: Low

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

REFERENCES:

- Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.
- Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO
- IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.
- Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS# CDROM Version), Micromedex, Inc., Englewood, CO.
- Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.



- Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.
- Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.
- Ariel Insight# (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.
- The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.
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Although reasonable care has been taken in the preparation of the information contained herein, Nutec, extends no warranties, makes no representation and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

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