



SAFETY DATA SHEET

1. Identification

Product identifier	Nycon-AR
Other means of identification	
SDS number	5010
Synonym(s)	Alkali resistant glass fiber, AR-HP, AR-HD, AR-DM
Recommended use	Concrete / Mortar reinforcement fibers
Recommended restrictions	None known

Manufacturer/Importer/Supplier/Distributor information

Nycon Corporation
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Fairless Hills, PA 19030
USA
Emergency telephone : 1-800-456-9266
General Information : Phone: 1-215-310-2139
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2. Hazard(s) identification

Physical hazards	Not classified
Health hazards	Not classified
OSHA defined hazards	Combustible dust
Label elements	
Hazard symbol	None
Signal word	Warning
Hazard Statement	May form combustible dust concentrations in the air
Prevention	Not assigned
Response	Not assigned
Storage	Not assigned
Disposal	Dispose of or recycle in accordance with local and/or state laws
Hazard(s) not otherwise classified	N/A

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Silicon dioxide	SiO ₂	99439-28-8	57%
Zirconium dioxide	ZrO ₂	1314-23-4	16.5%
Titanium dioxide	TiO ₂	13463-67-7	5%
Calcium oxide	CaO	1305-78-8	4.5%
Sodium oxide	Na ₂ O	1313-59-3	13%
Potassium oxide	K ₂ O	12136-45-7	3%
Alumina	Al ₂ O ₃	1344-28-1	<1%
Iron Oxide	Fe ₂ O ₃	1309-37-1	<.5%

Composition comments	Glass fibers are used as a reinforcing agent for many polymer products; to form a very strong and relatively lightweight fiber-reinforced polymer (FRP) composite material called glass-reinforced plastic (GRP), also popularly known as "fiberglass". This structural material product contains little air, is more dense than glass wool, and is an especially good thermal insulator.
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4. First-aid Measures

Inhalation	Gargle with clean water about ten times. Also, blow your nose gently. seek medical attention if you feel some itching or irritation in the nose and/or throat.	
Skin contact	Do not rub or scratch the affected areas. Rubbing or scratching may cause harsh itching	
Eye contact	Proceed to the eyewash station and rinse until product is removed from eye.	
Ingestion	If swallowed, do not induce vomiting, shall vomiting occur naturally lean forward to prevent aspiration then rinse mouth.	
Most important symptoms/effects, acute and delayed :	Inhalation	May cause shortness of breath, tightness of the chest, a sore throat, and cough
	Skin	May cause redness and or itching
	Eyes	May cause Itching, burning, redness, and tearing
	Ingestion	With large amounts ingested may cause gastrointestinal blockage
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.	
General information	Ensure that employees are aware of the materials involved, and take precautions to protect themselves	

5. Fire-fighting measures

Suitable extinguishing media	Dry Chemical, Water Spray, Foam, Carbon Dioxide. Avoid using direct streams of water on molten burning material.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	Carbon monoxide, carbon dioxide, original monomer other hydrocarbon oxidation
Special protective equipment and precautions for firefighting	Wear self-contained breathing apparatus and protective suit.
Fire-fighting equipment / instructions	Use standard firefighting procedures and consider the hazards of other involved material

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Use personal protective equipment (PPE).
Methods and materials for containment and clean up	Land Spill: Spilled material should be swept up and discarded. Comply with applicable federal, state and local regulations. Water Spill: Notify local authorities if spilled in waterway or sewer. Skim from surface of water if possible. Waste Disposal: Reclaim where possible. Dispose of in accordance with local and state regulations. This is not an RCRA
Environmental precautions	No special environmental precautions required

7. Handling and storage

Precautions for safe handling	Avoid inhalation or contact with the eyes or skin. if necessary, use gloves, safety glasses and dust mask. Glass fiber is readily charged with static electricity. static electricity can damage electronic components and cause explosions and fires. take measures to prevent the build up electrostatic charge.
Conditions for safe storage, including and incompatibilities	Keep in tightly closed and dry containers. To maintain product quality, do not store in heat or direct sunlight. Keep from freezing. Routine housekeeping should be done to ensure that dust does not accumulate on surfaces.

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limites noted for ingredient(s).
Biological limit values	No biological exposure imilts noted for the ingredient(s).
Appropriate engineering controls	Provide mechanical ventilation; in general such ventilation should be provided at compounding/converting areas and at fabricating/ filling work stations where the material is heated. Local exhaust ventilation should be used over and in the vicinity of machinery involved in handling the molten material.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses in compliance with OSHA regulations
Hand protection	Wear clean, long-sleeved, body-covering clothing.
Other	N/A
Respiratory protection	If handling at elevated temperatures and overexposure has been determined, an air-respirator is advised in the absence of proper environmental control.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary
General hygiene consideration	Wash hands before breaks and immediately after handling product

9. Physical and chemical properties

Appearance

Physical state	Solid
Form	Fibers
Color	white
Odor	No significant odor
Odor threshold	Not available
pH	Not available
Melting point/freezing point	704°C (1299.2°F)
Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available

Upper/lower flammability or explosive limits

Flammability limit - lower %	Not available
Flammability limit - lower %	Not available
Explosive limit - lower %	Not available

Explosive limit - upper %	Not available
Vapor pressure/density	Not available
Specific gravity	2.8 (g/cm ³ @ 23°C)
Relative density	Not available
Solubility(ies)	Insoluble
Partiton coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decompostion temperature	Not available
Viscosity	Not available

10. Stability and reactivity

Reactivity	Strong mineral acids.
Chemical stability	Material is stable under normal conditions
Possibility of hazardous reactions	No Dangourous reactions known under conditions of normal use
Conditions to avoid	Avoid Exposure to open flame or temperatures exceeding recommended temperatures. Avoid prolonged exposure to processing temperatures. Consult tech service for recommended process conditions. Do not store processed product hot.
Incompatible materials	Strong mineral acids.
Hazardous decomposition products	Thermal decomposition products may include a complex mixture of organic and inorganic compounds including but not limited to simple hydrocarbons, aldehydes, ketones, nitriles, inorganic oxides, halides, and possible trace amounts of hydrogen cyanide and other materials depending upon specific temperature, time, exposure, and other immediate environmental factors.

11. Toxicological infomation

Information on likely routed of exposure

Ingestion	Ingestion is not likely route of exposeure. if ingested seek medical attention
Inhalation	Remove person to fresh air. If irritation develops obtain medical attention.
Skin contact	If irritation develops, flush with running water. Wash affected area with soap and water
Eye contact	If irritation develops do not scrach or rub, flush with running water for 10-15 minutes.
Symptoms related to the Physical, chemical and toxicological characteristics	See information on likely routes of exposure.

Information on toxicological effects

Acute toxicity	Not available
Skin corrosion/irritation	Severe pruritus and irritation incurred from exposure to mechanical stimulus while on the job have been confirmed.
Serious eye damage/eye irritation	Mechanical stimuli from exposure while on the job have been confirmed.
Respiratory sensitization	Not available
Skin sensation	Not available
Germ cell mutagenicity	Not available

Carcinogenicity	International Agency for Research on Cancer (IARC): Group3 - NOT classifiable as to its carcinogenicity to humans.
Reproductive toxicity	Not available
Specific target organ toxicity single exposure	Temporary respiratory tract irritation has been confirmed while exposed on the job, but disappears when exposure is removed.
Specific target organ toxicity repeat exposure	Not available
Aspiration hazard	Not likely, due to the form of the product
Chronic effects	None Known
Further information	Exposure to powder or dust may be irritating to eyes, nose and throat.

12. Ecological information

Ecotoxicity	No known or expected ecotoxicity.
Persistence and degradability	Not available
Bioaccumulative potential	Not available
Mobility in soil	Not available
Other adverse effects	Not available

13. Disposal considerations

Disposal instructions	Dispose in accordance with all applicable regulations
Waste from residue / unused product	Empty containers or liners may retain so product residues. this material and its container must be disposed of in a safe manner
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling

14. Transport information

DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

15. Regulatory information

US Federal Regulations	This Material is not Hazardous by OSHA Hazardous Communication Standard 29 CFR 1910.1200
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Superfund Amendments and Reauthorization Act of 1986 (SARA) (Y/N)

Hazard categories : Immediate Hazard	No
Delayed hazard	No
Fire hazard	Yes
Pressure hazard	No
Reactivity hazard	No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous Chemical	Yes

16. Other information, including date of preparation or last revision

Issue date	Jan. 04, 2016
Revision date	Jan. 04, 2016

Issue Date: 04-Jan-2016

Version # 1.0

Further information Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

HMIS ratings : (Scale)

Health 0 Flammability 1 Physical hazard 0

NFPA ratings : (Scale)

Health 0 Flammability 1 Instability 0

List of abbreviations :

IARC - International Agency for Research and Cancer.

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