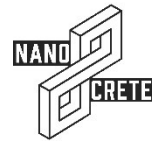


MATERIAL SAFETY DATA SHEET -



SECTION 1 -CHEMICAL PRODUCT AND COMPANY

IDENTIFICATION

Product Identifier NanoGel	
Product Use Gel Admixture for concrete applications	
Manufacturer's Name NanoCrete Inc.	Supplier's Name NanoCrete Inc.
Street Address 1296 Coffman Dr	Street Address 1296 Coffman Dr
City Berthoud State CO	City Berthoud State CO
Postal Code 80513	Emergency Telephone 720-456-0473
Postal Code 80513	Emergency Telephone 720-456-0473
Date MSDS Prepared 12-27-23	MSDS Prepared By Shaun Lane Phone Number 720-456-0473

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (<i>specific</i>)	%	GAS Number	LO ₅₀ of Ingredient (<i>specify species and route</i>)	LC ₅₀ of Ingredient (<i>specify species</i>)
Graphene nanoparticles	5-75%		N/A	N/A
CS nanoparticles	5-75%		N/A	N/A
Chloride Salt	5-75%		N/A	N/A
Inert Dispersing Agents	5-75%			

SECTION 3 - HAZARDS IDENTIFICATION

Route of Entry:	<input type="checkbox"/> Skin Contact	<input type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Eye Contact	<input type="checkbox"/> Inhalation	<input checked="" type="checkbox"/> Ingestion
Potential Health Effects: Unknown long-term health effects. Irritation of eyes and skin are most immediate hazards.					

SECTION 4 - FIRST AID MEASURES

Skin Contact wash thoroughly with plenty of soap and water. If irritation persists, get medical attention.
Eye Contact In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get prompt medical attention
Inhalation N/A
Ingestion In case of indegestion, do NOT induce vomiting, drink plenty of water for at least 15 minutes and contact Poison Control Center immediately

Please continue on reverse side

Product Identifier- 2-

SECTION 5 - FIRE FIGHTING MEASURES

Flammable	No		If yes, under which conditions?
Means of Extinction			
Flashpoint (° C) and Method	Upper Flammable Limit(% by volume)	Lower Flammable Limit(% by volume)	
N/A	N/A	N/A	
Autoignition Temperature (°C)	Explosion Data- Sensitivity to Impact	Explosion Data- Sensitivity to Static Discharge	
N/A	N/A	N/A	
Hazardous Combustion Products			

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures
In case of a spill or leak of NanoGel, immediately contain the material to prevent environmental contamination. Use appropriate personal protective equipment (PPE) and clean up the spill using inert absorbent materials. Dispose of the collected material in accordance with local regulations. Avoid direct contact with skin or eyes and prevent the material from entering drains or waterways.

SECTION 7 - HANDLING AND STORAGE

Handling Procedures and Equipment
When handling NanoGel at the site or batch mixer, workers should wear standard personal protective equipment, including gloves and safety glasses, to ensure safe handling. The product should be carefully added to the mixer according to the prescribed ratios, ensuring that there's minimal spillage. Standard tools for concrete and shotcrete application can be used without the need for specialized equipment. It's important to handle the product with care to maintain its integrity and effectiveness.
Storage Requirements
NanoGel should be stored in a cool, dry place, away from direct sunlight and extreme temperatures, to maintain its efficacy. The product must be kept in its original packaging until ready for use. Ensure that the storage area is well-ventilated and away from any open flame or heat source.

SECTION 8 - EXPOSURE CONTROL/ PERSONAL PROTECTION

Exposure Limits	<input type="radio"/> ACGIHTLV	<input type="radio"/> OSHA PEL	<input type="radio"/> Other (specify)
Specific Engineering Controls (such as ventilation, enclosed process)			
Personal Protective Equipment	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> N95 Mask	<input checked="" type="checkbox"/> Eye
	<input type="checkbox"/> Footwear	<input type="checkbox"/> Clothing	<input type="checkbox"/> Other
If checked, please specify type			
When handling NanoGel, it is advisable to wear gloves, such as latex, neoprene, or regular work/labor gloves, to protect the skin from potential irritation. Additionally, safety goggles or glasses with side shields should be used to safeguard the eyes from accidental splashes or exposure to the gel. These precautions ensure safe handling and minimize the risk of contact-related issues while using NanoGel.			

Product Identifier- 3 -

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State Non-Newtonian Gel	Odor and Appearance Odorless & jet black in appearance	Odor Threshold (ppm) N/A
Specific Gravity Unknown	Vapor Density (air = 1) Unknown	Vapor Pressure (mmHg) Unknown
Evaporation Rate Unknown	Boiling Point (° C) Unknown	Freezing Point(° C) Unknown
pH Unknown	Coefficient of Water/Oil Distribution Unknown	[Solubility in Water] Unknown

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability X Yes 0 No	If no, under which conditions?
Incompatibility with Other Substances 0 Yes X No	If yes, which ones?
Reactivity, and under what conditions?	
Hazardous Decomposition Products	

SECTION 11 -TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	
Minimal effects of acute exposure. Gel is inert, odorless, and stable so unless unreasonably acted upon, the Gel itself should cause no harm for the acute/short term exposure.	
Effects of chronic exposure	
The long-term effects of exposure to NanoGel, especially considering its unique composition with stabilized graphene and other nanoparticles, are not fully established. Due to the stabilization of graphene within the gel, it is unlikely to be released into the environment as a dust. However, long-term exposure to nanoparticles can potentially pose health risks, although the specific effects largely depend on the nature and size of the nanoparticles, as well as the route and duration of exposure.	
Irritancy of Product	Unknown
Skin sensitization	Unknown
Respiratory sensitization	Unknown
Carcinogenicity-IARC	Unknown
Carcinogenicity – ACGIH	Unknown
Reproductive toxicity	Unknown
Teratogenicity	Unknown
Embrototoxicity	Unknown
Mutagenicity	Unknown
Name of synergistic products/effects	Unknown

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