

Safety Data Sheet

Prepared in accordance with GHS standard
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Revision date: June 2019

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Section 1: Identification

Product Identifier (Name) Nano-Shield OSP™

Relevant identified uses of the chemical and restriction on use

The “Relevant” use identified is provided solely to conform to Governmental requirements, and is not included in the manufacturer's published data and specifications. The complete information on identified uses is not available now, and the Safety Data Sheet (“SDS”) will be updated, as it becomes available.

Details of the supplier of the safety data sheet

Manufacturer Gemite Products Inc.
1787 Drew Road, Mississauga, Ontario, L5S 1J5, Canada
Telephone (905) 672-2020
Emergency telephone number 905 672 2020

Other means of identification

Chemical family Waterproofing admixture for Portland cement concrete and mortar. For further information, refer to the product technical data sheet.

Section 2: Hazard(s) identification

2. Hazards identification

GHS Classification: Skin irritation, Category 2 H315: Causes skin irritation.
Serious eye damage, Category 1 H318: Causes serious eye damage.
Carcinogenicity, Category 1A H350: May cause cancer.
Specific target organ systemic toxicity - single exposure, Category 3, Respiratory System H335: May cause respiratory irritation.

GHS Label element

Hazard pictograms:



Signal Word: Danger

Hazard Statements: H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H350 May cause cancer.

Precautionary Statements: Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/ face protection. P280 Wear protective gloves.

P281 Use personal protective equipment as required.

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Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P310 Immediately call a POISON CENTER or doctor/physician.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

362 Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233 Store in a well-ventilated, dry place.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Section 3: Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS No	Concentration
Portland Cement	65997-15-1	36%
Quartz (SiO ₂)	14808-60-7	43%
Quartz (SiO ₂), 5 µm	14808-60-7	11%

All other ingredients are non-hazardous within the current knowledge of the supplier and in the concentrations applicable.

Section 4: First-aid measures

Description of First Aid measures

General advice

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled

After inhalation of dust. Keep patient calm, remove to fresh air. If difficulties occur: Obtain medical attention.

If on skin

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

If in eyes

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

Most important symptoms and effects, both acute and delayed

Symptoms

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Hazards

No applicable information available.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Section 5: Fire-fighting measures

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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Specific extinguishing methods: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing dust. Deny access to unprotected persons.

Environmental precautions: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Advice on safe handling: Do not breathe vapors/dust. Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products.

Conditions for safe storage: Prevent unauthorized access. Store in original bag. Keep in a well-ventilated place. Observe label precautions. Store in accordance with local regulations.

Materials to avoid: acids

Section 8: Exposure controls/personal protection

Component	CAS No	Reference**	Value	Exposure limits
Quartz (SiO ₂)	14808-60-7	ACGIH	TWA	0.025 mg/m ³ – respirable fraction
		OSHA Z-3	TWA	30 mg/m ³ / % SiO ₂ + 2 total dust
		OSHA Z-3	TWA	10 mg/m ³ / % SiO ₂ + 2 respirable
		OSHA Z-3	TWA	250 mppcf/m ³ /SiO ₂ +5 respirable
		OSHA P0	TWA	0.1 mg/m ³ respirable fraction
Portland cement	65997-15-1	ACGIH	TWA	1 mg/m ³ respirable fraction
		OSHA P0	TWA	10 mg/m ³ total
		OSHA P0	TWA	5 mg/m ³ respirable fraction
		OSHA Z-1	TWA	15 mg/m ³ total dust
		OSHA Z-1	TWA	5 mg/m ³ respirable fraction
		OSHA Z-3	TWA	50 million particles per cubic foot dust
Quartz (SiO ₂) μm	14808-60-7	ACGIH	TWA	0.025 mg/m ³ – respirable fraction
		OSHA Z-3	TWA	30 mg/m ³ / % SiO ₂ + 2 total dust
		OSHA Z-3	TWA	10 mg/m ³ / % SiO ₂ + 2 respirable
		OSHA Z-3	TWA	250 mppcf/m ³ /SiO ₂ +5 respirable
		OSHA P0	TWA	0.1 mg/m ³ respirable fraction

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**Reference

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminant (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

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Engineering measures: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other

engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection: Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. Hand protection

Remarks: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment. before entering eating areas. Wash thoroughly after handling. Avoid breathing dust.

Section 9: Physical and chemical properties

Appearance:	powder
Color:	gray, light grey or white
Odor:	odorless
Odor Threshold:	no data available
Flash point:	not applicable
Ignition temperature:	not applicable
Decomposition temperature:	no data available
Lower explosion limit (Vol%):	no data available
Upper explosion limit (Vol%):	no data available
Flammability (solid, gas):	no data available
Oxidizing properties:	not applicable
Auto-ignition temperature:	no data available
pH:	not applicable
Melting point/range:	no data available
Freezing point:	not applicable
Boiling point/boiling range:	not applicable
Vapor pressure:	not applicable
Specific density:	ca.2.51 g/cm ³
Water solubility:	insoluble
Viscosity, dynamic:	no data available
Viscosity, kinematic:	no data available
Relative vapor density:	no data available
Evaporation rate:	not applicable
Burning rate:	not applicable
Volatile organic compounds (VOC) content:	0 g/l A+B combined

Section 10: Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: The product is chemically stable.

Possibility of hazardous reactions: stable under recommended storage conditions.

Conditions to avoid: no data available

Incompatible materials: no data available

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Section 11: Toxicological information

Acute toxicity:	
Acute oral toxicity:	no data available
Acute inhalation toxicity:	no data available
Acute dermal toxicity:	no data available
Skin corrosion/irritation:	causes skin irritation.
Serious eye damage/eye irritation:	causes serious eye damage.
Respiratory or skin sensitization:	no data available
Germ cell mutagenicity	
Mutagenicity:	no data available
Carcinogenicity:	may cause cancer.
IARC:	Group 1: Carcinogenic to humans Quartz (SiO ₂) 14808-60-7 Quartz (SiO ₂) <5µm 14808-60-7
NTP:	Known to be human carcinogen Quartz (SiO ₂) 14808-60-7 Quartz (SiO ₂) <5µm 14808-60-7
Reproductive Toxicity/Fertility:	no data available
Reproductive Toxicity/Development:	teratogenicity: no data available
STOT-single exposure:	Assessment: May cause respiratory irritation.
STOT-repeated exposure:	Prolonged exposure can cause silicosis. Assessment: no data available
Aspiration toxicity:	no data available

Section 12: Ecological information

Other information	Do not empty into drains; dispose of this material and paper bag in a safe way.
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Section 13: Disposal considerations

Waste from residues: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14: Transport information

DOT:	not dangerous goods
IATA:	not dangerous goods
IMDG:	not dangerous goods
Special precautions for user:	no data available

Section 15: Regulatory information

TSCA list: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

EPCRA: Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity: This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity: This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards: Acute Health Hazard

Chronic Health Hazard: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion

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Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act: This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

California Prop 65 WARNING! This product contains a chemical known in the State of California to cause cancer.

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Section 16: Other information

HMIS Classification

Health	*	3
Flammability		0
Physical Hazard		0
Personal Protection		X

Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notice to reader

The information contained in this Safety Data Sheet is based on our level of knowledge at the time of its preparation. Our most current Sales Terms & Conditions shall apply. Please consult the technical data sheet for the appropriate products, and current guide specifications and application instructions, prior to any use and processing.

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