

SAFETY DATA SHEET

Product Name: **Nanoman Anti Graffiti (Porous)**

FILE NO: NTP/AGP/1005

SDS DATE: 01/06/2019

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Nanoman Anti Graffiti (Porous) Coating
Synonyms: Nanoman Anti Graffiti (Porous Surfaces) Coating
 Nanoman Graffiti (porous Surfaces) Protective Coating

Company Name: Nilima Nanotechnologies
Address: 1F, Gomti Bhavan, 27E, French Road, Chowpatty, Mumbai - 400007

Telephone: +91 22 79698548
 Business Hours 9:00am to 5:00pm, Monday to Friday

Other Names Not Applicable

Recommended Use: For coating of surfaces to provide protection against graffiti vandalism..

SECTION 2: HAZARDS IDENTIFICATION

Hazard Statement H317 May cause an allergic skin reaction
 H319 May cause eye irritation
 H335 May cause respiratory irritation.



Precautionary Statement (Prevention) P261 Avoid breathing dust/fume/gas/mist/ vapours/spray
 P264 Wash skin thoroughly after handling
 P271 Use only outdoors or in a well-ventilated area
 P280 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statement (Response) P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.
 P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or doctor/ physician if you feel unwell.
 P304 + P340 +P310 P312 F INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell
 P312 Call a POISON CENTER or doctor/physician if victim feels unwell
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P363 Wash contaminated clothing before reuse.

Precautionary Statement (Storage) P403+P233+P235 Store in a well-ventilated place. Keep cool. Keep container tightly closed.
 P405 Store locked up.

Precautionary Statement (Disposal) P501 Dispose of contents/container to an approved waste disposal plant.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterisation Ingredients

Ingredient	CAS Number	EC Number	Content
Methyl-0-0'-0"-butan-2-one-trioximosilane	22984-54-9	245-366-4	> 5%
Butanone Oxime Vinylsilane	2224-33-1	218-747-8	> 5%
3-(2-Aminoethylamino)propyltrimethoxysilane	1760-24-3	217-164-6	> 5%
Proprietary Ingredients determined to be not hazardous			<60% >99%

SECTION 4: FIRST AID MEASURES

- General Advice:** Remove contaminated or saturated clothing
- Inhalation:** Remove victim from exposure. Take affected persons out into the fresh air. In case of persistent discomfort seek medical attention
- Ingestion:** Have the mouth rinsed with water. Have the patient drink plenty of water in small sips. Do not induce vomiting. Obtain medical attention.
- Skin Contact:** Wash off immediately with plenty of water. If swelling, redness, blistering or irritation occurs seek medical advice.
- Eye contact:** Keeping eyelid open, immediately rinse thoroughly for at least 5 minutes using plenty of water or, eye rinsing solution. Seek medical attention
- Notes to physician:** Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES

- Specific Measures:** Small fire: use water foam, dry chemical, CO2 or water spray.
 Large Fire: use foam, fog or water spray. Do not use water jets. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific Hazards:** None known
- Hazchem Code:** Not applicable
- Precautions for Firefighters** Wear respiratory protection equipment. Fully-encapsulated, gas tight suits should be worn for maximum protection

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Protective clothing should be worn to prevent excessive skin contact.
- Environmental Precautions:** Prevent liquid entering sewers. Do not allow to enter surface waters, storm drains, etc.
- Small spills:** Take immediate steps to stop and contain the spill. Caution should be excised regarding personnel safety and exposure to be spilled material. Wear protective clothing. Absorb small spills onto paper towels and evaporate in a safe place Flush the contaminated area with plenty of water.

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Large spills: Stop leak if you can do it without risk. Restrict access to area until completion of clean-up procedure. Wear adequate protective equipment, use self-contained breathing apparatus in confined poorly-ventilated areas. Large quantities should be absorbed on to sand, earth or non combustible absorbent material and removed to a safe area for disposal. Flush the contaminated area with plenty of water.

SECTION 7: HANDLING AND STORAGE

Handling and Storage: Avoid contact with skin or in eyes. Do not inhale vapour or mist. Open and handle container with care.

Conditions for safe Storage: Keep container tightly closed in a cool, dry and well-ventilated place away from direct sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Check regularly for leakage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standard: No exposure limits assigned for this specific material or ingredients

Other Exposure Information: Not applicable

Appropriate Engineering Controls: Provide adequate ventilation. If using indoors keep windows and doors open during use. Keep containers closed when not in use.

Respiratory Protection: Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 – Respiratory Protective Devices and be selected in accordance with AS 1715 – Selection, Use and Maintenance of Respiratory Protective Devices.

Eye Protection: The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin Protection: Hand protection should comply with AS 2161, Occupational protective gloves – Selection Use and Maintenance. Recommendation: PVC, neoprene or nitle rubber gloves.

Other Protective Clothing Equipment: Impermeable clothing. Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken..

Hygienic Measures: Always wash hand before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Footwear: Safety boots in industrial situations is advisory. Foot protection should comply with AS 2210, occupational protective footwear- Guide to selection, care and use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Appearance: Whitish / Grey

Odor: Slight odour

Melting Point: not applicable

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Boiling Point:	not applicable
Solubility in Water:	Insoluble in water
Flash Point:	not applicable
Vapor Pressure:	not applicable
Specific Gravity:	not available
Relative Density:	0.985 g/m ³ (at 20° C)
Ignition Temp.	not applicable
Evaporation Rate:	not available
Explosion Limits:	not applicable
pH (500 g/l H₂O):	not available
Dynamic viscosity:	<300 poise @20° C
Kinematic viscosity	not available
Volatile Organic Compounds (VOC):	not available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal use conditions
Conditions to Avoid	Excessive heat for prolonged periods of time.
Incompatibility (Material To Avoid):	acids, alkalines, oxidants, reductants
Hazardous Decomposition	does not decompose with normal use

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Effects:	Acute toxicity
	LD50 Oral (Rat) 7,669 mg/kg (3-(2-Aminoethylamino)propyltrimethoxysilane)
	LD50 Dermal (Rabbit) not available (3-(2-Aminoethylamino)propyltrimethoxysilane)
	LC50 Inhalation (Rat) not available (3-(2-Aminoethylamino)propyltrimethoxysilane)
	LD50 Oral (Rat) 2,000 mg/kg (Butanone Oxime Vinylsilane)
	LD50 Dermal (Rabbit) 2,000 mg/kg (Butanone Oxime Vinylsilane)
	LC50 Inhalation (Rat) not available (Butanone Oxime Vinylsilane)
	LD50 Oral (Rat) 2,463 mg/kg (Methyl-0-0'-0''-butan-2-one-trioximosilane)
	LD50 Dermal (Rabbit) 2,000 (Methyl-0-0'-0''-butan-2-one-trioximosilane)
	LC50 Inhalation (Rat) >50mg/l/4h (Methyl-0-0'-0''-butan-2-one-trioximosilane)

Other Information:	Chronic effects on Humans – nota available
	Toxic effects on Humans – not available

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- General:** From our experience and the information provided to us this product does present any adverse health effects if the product is handled in accordance with this Safety Data Sheet and product label.
- Ingestion:** May cause nausea, vomiting, headache, dizziness and gastric irritation
- Eye Contact:** May cause irritation and watering. High concentration of vapours may cause irritation.
- Skin Contact:** Contact with the skin may result in irritation
- Inhalation:** Where the material is used in a poorly ventilated area, at elevated temperature or in confined spaces, vapour may cause irritation to the mucous membranes of the respiratory tract. May cause headaches, dizziness and nausea.

SECTION 12: ECOLOGICAL INFORMATION

- Ecological Information:** No ecological problems are expected to occur when the product is handled and used with due care and attention
- Ecotoxicity:** Avoid contaminating waterways
- Persistence and Degradability:** This product is not readily biodegradable
- Results of PBT and vPvB assessment:** This product does not contain and PBT or vPvB substances
- Further Information:** no ecotoxicological study available

SECTION 13: DISPOSAL CONSIDERATIONS

- Disposal Considerations** Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local authority, state and federal government regulations.

SECTION 14: TRANSPORT INFORMATION

The product is not classified as dangerous goods covered by international regulation on the transport of dangerous goods (IATA, IMDG, RID)

	Land Transport ADR/RID/GGVS/GGVE	Sea Transport (IMDG / IMO)	Air Transport (IATA / ICAO)
UN Number	Not Regulated	Not Regulated	Not Regulated
Proper Shipping Name	Not Applicable	Not Applicable	Not Applicable
DG Class	Non-hazardous	Non-hazardous	Non-hazardous
Hazchem Code	Not Applicable	Not Applicable	Not Applicable
Packaging Group	Not Applicable	Not Applicable	Not Applicable
Marine pollutant	no	no	no

SECTION 15: REGULATORY INFORMATION

- Classification:** Not classified as hazardous
- Poisons Schedule:** Not scheduled

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SECTION 16: OTHER INFORMATION

DISCLAIMER: The information contained in this Safety Data Sheet (SDS) is believed to be correct and was obtained from sources we believe are reliable. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Nilima Nanotechnologies makes no representations, guarantees or warranties of any kind as to the accuracy, suitability for particular applications, hazards connected with the use of the material, or the results to be obtained from the use thereof. User assumes all risks and liability of any use, processing or handling of any material, variations in methods, conditions and equipment used to store, handle or process the material and hazards connected with the use of the material are solely the responsibility of the user and remain at their sole discretion. Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user, and the user has the responsibility to provide a safe work place, to examine all aspects of its operation and to determine if or where precautions, in addition to those described herein, are required.