

Uniguard Nano Sil

Section 1. Identification

Product name: Uniguard Nano Sil
Product description: Paint
Product type: Liquid
Other means of identification: Not available

Supplier's details: Universal Paint Technologies
Wadi Al-eish Zarqa, Jordan.
Tel: 00962 6 4884454
Fax: 00962 6 4884458

Section 2. Hazards identification

Classification of the substance or mixture: H-code
Flammable liquids, Category 3
Serious eye damage/eye irritation, Category 2A

GHS label elements
Hazard pictograms:



Signal word: Warning
Hazard statements: H226 – Flammable liquid and vapour.
H319 – Causes serious eye irritation.

Precautionary statements

General: P102 – Keep out of reach of children.
Prevention: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 – Wear protective gloves/protective clothing/eye protection.
Response: P337 + P313 – If eye irritation persists: Get medical advice/attention.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage: P403 + P235 - Store in a well-ventilated place. Keep cool.
Disposal: P501 - Dispose of contents/container to waste disposal.

Other hazards which do not result in classification: None known.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture
Other means of identification: Not available.



CAS number/other identifiers

CAS number: Not applicable.
EC number: Mixture

Ingredient name	%	CAS number
Silane Siloxane Binder	40.0 - 80.0 %	34396-03-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occurs.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Get medical attention if symptoms occurs.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Skin contact: May causes slight skin irritation.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: No specific data.

Inhalation: No specific data.

Skin contact: No specific data.

Ingestion: No specific data.



Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments:	No specific treatment
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media:	Water-mist, carbon dioxide, dry chemical or foam-type extinguishing media.
Unsuitable extinguishing media:	None known.
Products of Combustion:	Fire or high temperatures create: Toxic monoxide (CO). gases/ vapors/ fumes of: Carbon dioxide (CO ₂). Carbon monoxide.
Special protective actions for fire-fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.
Environmental precautions:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<u>Methods and material for containment and cleaning up</u>	
Small spill:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.



Large spill:

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Avoid generation and spreading of dust. Avoid contact with skin or inhalation of spillage, dust vapour. Wear necessary protective equipment. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

Section 7. Handling and storage

Precautions for safe handling

Protective measures:

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Minimum temperature allowed during storage and transportation: 0 °C. Do not allow this material to freeze. Maximum temperature allowed during storage and transportation: 40 °C. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.



Individual protection measures

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety eyewear complying to EN 166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection:

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Recommended gloves, neoprene or nitrile rubber gloves.

Body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:

If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use respiratory mask with charcoal and dust filter when spraying this product. In confined spaces, use compressed-air or fresh-air respiratory equipment.

Section 9. Physical and chemical properties

Appearance

Physical state:

Liquid

Colour:

Clear.

Odour:

Pleasant.



Odour threshold:	Not applicable.
pH:	Not applicable.
Melting point:	Not applicable.
Boiling point:	180 °C (356 °F) at 1013 hPa
Flash point:	40 °C (104 °F)
Evaporation rate:	Not applicable.
Flammability (solid, gas):	Not applicable.
Lower and upper explosive (flammable) limits:	Not applicable.
Vapour pressure:	Not applicable.
Vapour density:	Not applicable.
Density:	0.97 g/cm ³
Solubility:	Not applicable.
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	300 °C (572 °F)
Decomposition temperature:	Not available.

Section 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	Moisture, heat, open flames, and other sources of ignition.
Incompatible materials:	No specific data.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity:

For this endpoint no toxicological test data is available for the whole product.

Irritation/Corrosion:

For this endpoint no toxicological test data is available for the whole product.

Sensitisation:

For this endpoint no toxicological test data is available for the whole product.

Mutagenicity:

For this endpoint no toxicological test data is available for the whole product.

Carcinogenicity:

For this endpoint no toxicological test data is available for the whole product.



Reproductive toxicity:

For this endpoint no toxicological test data is available for the whole product.

Teratogenicity:

For this endpoint no toxicological test data is available for the whole product.

Specific target organ toxicity (single exposure):

For this endpoint no toxicological test data is available for the whole product.

Specific target organ toxicity (repeated exposure):

For this endpoint no toxicological test data is available for the whole product.

Aspiration hazard:

For this endpoint no toxicological test data is available for the whole product.

Information on likely routes of exposure: Not available.

Potential acute health effects

Eye contact:	No specific data.
Inhalation:	No specific data.
Skin contact:	No specific data.
Ingestion:	No specific data.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	No specific data.
Inhalation:	No specific data.
Skin contact:	No specific data.
Ingestion:	No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects:	Not available.
Potential delayed effects:	Not available.

Long term exposure

Potential immediate effects:	Not available.
Potential delayed effects:	Not available.

Potential chronic health effects

Not available.

General:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.



Numerical measures of toxicity

Acute toxicity estimates:

Not available.

Section 12. Ecological information

Toxicity:

No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

Persistence and degradability:

Not inherently biodegradable.

Bioaccumulative potential:

Bioaccumulation is not expected to occur.

Mobility in soil:

Soil/water partition coefficient (K_{oc}): Not available.

Other adverse effects: None known.

Section 13. Disposal considerations

Disposal methods:

The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product

No available data.



International regulation

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

History

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