



FICHA TÉCNICA

Revestimiento de nanotecnología NG1010

Carbone Nanotechnology

DESCRIPCIÓN

NG 1010 es un producto especial de nanotecnología, un revestimiento súper-hidrófobo al agua y repelente a la suciedad en superficies de vidrio, con efectos a largo plazo (5 años) con una sola aplicación. Este no es un sellador que forma una película, más bien es un modificador de la superficie en un nivel molecular al proporcionar una solución duradera. Efecto fácil de limpieza / Efecto auto limpiante. El agua se escurre fácilmente de la superficie tratada la suciedad y demás partículas se eliminan mediante lavado por la lluvia o cuando se enjuaga con agua, la superficie tratada impedirá que el vidrio se dañe con manchas de agua, cemento y demás suciedades la cual por su efecto antiadherente se podrá limpiar solo frotando con una esponja. Para este producto no recomendamos usar HVLP ya que su mejor rendimiento se logra solo con paños de microfibra

CÓDIGO

NANO45-NG1010(1L)



Marca: Carbone Nanotechnology

Envase: 1 L.

Color: Incoloro

Uso: Listo para usar, **No diluya.**

Temperatura de Almacenamiento: > 4° C

Temperatura de Aplicación: > 4° C a 35° C

Aplicación: toalla de algodón suave, seco o paño microfibra

Rendimiento: 350 - 400 m² con un Litro

Tiempo de rendimiento: 30 mins - 24 hs fraguado total

Para superficies: cabinas de baño, ventanas, vitrinas

de tiendas, techos de vidrio, vidrios de vehículos,

yates, barcos, transporte público, tractores, industria,

aeronaves, paneles solares, fábricas de vidrio templado

y laminado.

Ventajas: repelencia agua y matrices liquidas, reduce fre-

cuencia de limpieza en un 80%, mayor resistencia a las

rayas (8H), intensifica el brillo del Vidrio en un 20%, con-

trol pasivo de microorganismos, resistencia a la corrosión

Salina (Manchas de agua en los vidrios, marcas de ce-

mento, pintura, propiedades anti-grafiti)

Procedencia: Australia

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

PRODUCT NAME: NG 1010
MANUFACTURER: Glass Coating
 Nanovations Pty Ltd
 Frenchs Forest NSW 2086
 Australia

EMERGENCY HEALTH INFORMATION: +61 2 99755602
EMERGENCY SPILL INFORMATION: 1 (800) 424-9300
OTHER PRODUCT INFORMATION: CHEMTREC (USA)
 +61 2 99755602
 email info@nanovations.com.au

Section 2. Composition, Information on Ingredients

Composition from modified hybrid materials in denatured Ethyl / Isopropanol Alcohol solution

Name	CAS	%	R-phrases
Ethyl Alcohol denatured	64-17-5	60 - 70 %	11
Iso Propyl Alcohol	67-63-0	23 -29 %	11
Ingredients determined not to be hazardous.		Balance to 100 %	

Section 3. Hazard Identification

Physical state Liquid.
Color clear
Emergency Overview FLAMMABLE LIQUID AND VAPOR.

POTENTIAL HEALTH EFFECTS may cause headaches, dizziness

See Toxicological Information (section 11)

Section 4. First Aid Measures**Eye Contact**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact

In case of contact, flush skin with plenty of water and soap..

Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms appear

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. If large quantities of this material are swallowed, call a physician immediately.

Section 5. Fire Fighting Measures**Flammability of the Product**

Highly Flammable

Auto ignition Temperature

The lowest known value is 398.9°C (750°F) (ETHANOL).

**Flash Points
Flammable Limits**

CLOSED CUP: > 21 °C (69.80°F).

Fire Fighting Media and Instructions

Use DRY chemical powder, High power water jet

Section 6. Accidental Release Measures**Large Spill and Leak**

Small quantities can be mopped or wiped up with rags. Eliminate all ignition sources. Keep unnecessary personnel away. Stop leak if without risk. Use suitable protective equipment (Section 8). For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways

Section 7. Handling and Storage**Handling**

Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling equipment).

Storage

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Keep container tightly closed.

Section 8. Exposure Controls, Personal Protection**Engineering Controls**

Ethanol 1000 ml / m3 1920 gram m3 limit
Gloves

Safety goggles.

Personal Protection**Eyes**

Avoid contact with eyes. Wear protective Goggles

Skin and Body

Avoid longer contact with skin.

Respiratory

Use with adequate ventilation. If ventilation is inadequate, use NIOSH certified respirator which will protect against organic vapor.

Hands

Wear gloves

Section 9. Physical and Chemical Properties**Physical state**

Liquid.

Odor

alcoholic

flash point:

21 °C (69°F)

pH

N/A

Color

clear colorless

Boiling/Condensation

>78°C (208°F)

Point Melting/Freezing

0°C (172°F)

Point Specific Gravity

~0.8 g/cm³ (Water = 1)

Vapor Pressure Vapor Density

Not available.

LogK_{ow}

N/A

Dispersion**Solubility**

Soluble in water.

Section 10. Stability and Reactivity**Stability and Reactivity**

The product is stable.

Conditions to avoid

Temperature extremes. Avoid storage heat over 35°C (95°F)

Incompatibility with

N/A

Section 11. Toxicological Information

Acute toxicity Toxicological data not available No Information

LD/LC50 Oral 7060 mg/kg (rat
>20000 mg/kg rabbit

Skin: No irritation

Eyes irritating

Sensitisation: The material is not sensitising

Inhalation: Can cause narcotic effects/intoxication

Section 12. Ecological Information

Eco-toxicity No Data

Persistence Potential This product is readily biodegradable.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.
EU code 080111 for product
EU code 150110 for packaging

Consult your local or regional authorities.

Section 14. Transport Information

The product is classified as dangerous goods for transport.

14.1 Road transport:**Land transport (ADR/RID)**

ADR/RID class :3

Warning plate

Hazard-no. :30

UN number :1170

Hazard label :3

IADR/RID packing group :II

Description of the goods

ethanol, ethyl alcohol, solution

14.2 Sea transport:**Marine transport**

IMDG code :3

UN number :1170

Marine pollutant :no

EmS : F-E, S-D

II IMDG packing group :

Hazard label :3

Remarks (marine transport)

ethanol, ethyl alcohol, solution

14.3 Air transport:

ICAO/IATA-DGR :3
 UN/ID number :1170
 Hazard label :3
 IATA-packing instructions - Passenger :305
 IATA-max. quantity - Passenger : 5 L
 IATA-packing instructions - Cargo :307
 IATA-max. quantity - Cargo : 60 L
 ICAO packing group : II

Description of the goods

ethanol, ethyl alcohol, solution

Section 15. Regulatory Information**U.S. Regulations**

US INVENTORY (TSCA): Listed on inventory.

Other Regulations

AUSTRALIAN INVENTORY (AICS): inventory.
 CANADA INVENTORY (DSL): Listed on inventory.
 CHINA INVENTORY (IECS): Listed on inventory.
 EC INVENTORY (EINECS/ELINCS): Listed on inventory.
 JAPAN INVENTORY (ENCS): Listed on inventory.
 KOREA INVENTORY (ECL): Listed on inventory.
Australian Hazchem Code: No information found.

R-phrases and S-phrases

R11: Flammable
(S2): Keep out of the reach of children
(S7): Keep container tightly closed.
(S23): Do not breathe vapour.

Section 16. Other Information**Label Requirements****Flammable Liquid**

**Hazardous Material
 Information System
 (U.S.A.)**

**National Fire
 Protection Association
 (U.S.A.)**

HEALTH	2	
FIRE HAZARD	3	
REACTIVITY	0	

Section 17. Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Nanotechnology glass treatment

DESCRIPTION

NG 1010 is a special nanotechnology product with a long-term hydrophobic effect on glass surfaces. This is not a sealer that forms a film but rather is a modification of the surface on a molecular level to provide an easy to clean surface effect.

The hydrophobic product works by repelling water- and prevents adhesion of foreign matter on the surface. **(Easy to Clean/self-cleaning effect)**. A ultra-thin and invisible coating appears to the glass surface. As a result, dirt particles cannot penetrate the matrix of the surface.

Water runs off easily from the treated surface and all dirt particles are washed off by rain or when rinsed with water. Alternatively, a hose can be used to clean the glass when there is little or no rainfall.

RECOMMENDED FOR GLASS PROTECTION

Microscopically regarded glass is not completely smooth, so water and dirt on the surface can build up easily. Nanovations Glass treatment allows the dirt in combination with water simply to wash off and provides a clean surface.

NG 1010 protects the glass surfaces against permanent stubborn stains from calcium and salt. The coating is long-lasting. **NG 1010** is UV and change temperature steady. It cannot be removed by water, cleaning agent or with high pressure equipment. Surfaces treated with **NG 1010** are very simple to maintain.

NG 1010 is recommended for:

- Windows and sky lights
- Wind screens , automotive and marine
- Glass facades
- shower screens
- Pool fences
- Balustrades
- Solar collectors

FEATURES & BENEFITS

- Economical and long lasting
- Excellent protection for new and old surfaces.
- Water and dirt repellent
- Increasing effect with periodical application
- Improves driving safety in rain
- Better night vision
- Excellent abrasion resistance
- Easy to clean/self cleaning effect

SPECIFICATIONS

Supply form	Liquid
Colour	clear
Density	Approx 0.8
Solvents	< Alcohol; denatured
Flashpoint	21°C
Storage temperature	Not below 4°C /39°F
Application temperature	4 to 35 °C / 39 to 86°F

SURFACE PREPARATION

The substrate must be completely dry before the application of the NG 1010.

Proper surface preparation insures maximum performance and durability. Surfaces must be dry and free from dirt, grit, dust, grease etc. Use CL 40 cleaner or the CL 50 surface preparation. If you have contaminations that require additional cleaning processes , the CL 50 should be applied as a last step.

Do not touch the cleaned glass with bare hands after the cleaning.

APPLICATION

It is most important that there is no water on the surface or on window frames and shower frames. Wipe this areas dry.

Ensure the surface is free of any previous residue of the cleaner.

DO NOT use the same cloth as used for cleaning , for the coating application. Use a dry soft and clean cotton towel, micro fibre cloth or

The application takes place in a processing step, whereby the coating is applied by a spray and wipe method.. Apply a small amount and polish in the wet treatment with a circular overlapping polishing motion, treating section by section. Spray the next area and repeat the process. Ensure the whole surface gets treated.

Alternatively, the treatment can be sprayed onto the towel or a cloth and polished into the glass in the same manner. Treat only small sections at a time and ensure the whole surface is treated evenly. Check the treated area for any streaks, residue or product splashes and wipe them off. The glass should be crystal clear when finished. Only a very small amount of treatment is required. 2.5 - 5 ml will treat a square metre of glass.

Visible residue during the application is a sign of too much product has been used. In that case, moist a cloth with the product and remove excess material until the glass is clear.

NG 1010 glass treatment



CURING

A actual curing time is not required. NG 1010 is water-resistant 30-minutes after application, reaching its optimal repellent effect within 12-24 hours.

The curing is a self assembling process and not a drying process.

CONSUMPTION

Consumption is between 2.5 ml and 5 ml a square metre depending on the conditions of the substrates and the age of the glass

200- 400 square meter per litre (1800– 3600 square foot)

Consumption rates are guidelines only .

CLEANING

Tools should be cleaned with clean water after use.

PACKAGING

1litre / 20 litre drums , larger containers on order .

STORAGE

NG 1010 can be stored in the original sealed packaging for at least 24 months. Storage conditions should be dry and cool.

Storage and handling and additional information, refer to the Material Safety Data Sheet.

PRECAUTIONS

READ ALL SAFETY DIRECTIONS AND WARNINGS ON PACKAGING BEFORE USE. REFER TO MATERIAL SAFETY DATA SHEET FOR HANDLING PROCEDURES.

NG 1010 contains flammable denatured alcohol.

Provide adequate ventilation if applying in a confined area.

Keep away from sources of ignition and flames.

Adequate protective personal equipment should be used.

Please read the Material Safety Data Sheet.

The information, and, in particular, the recommendations relating to the application and end-use of the products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Technical information and services are freely available from the Web site www.nanovations.com.au

Sydney Office:

Nanovations Pty Ltd

Ph. +61 2 9975 5602

Email info@nanovations.com.au

Web site www.nanovations.com.au