

**SAFETY DATA SHEET**

Product Name: **Nanoman Pre Cleaner**

FILE NO: NTP/PC/1003

SDS DATE: 01/06/2019

**SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

**Product Name:** Nanoman Pre Cleaner  
**Synonyms:** Nanoman Pre-Cleaner

**Company Name:** Nanotech Products Pty Ltd (ABN 47 153 300 933)  
**Address:** 8/50-54 Howleys Road, Notting Hill, VIC 3168

**Telephone:** 1300 696 266  
 Business Hours 9:00am to 5:00pm, Monday to Friday

**Other Names** Not Applicable

**Recommended Use:** For the cleaning of glass, ceramic, metal and plastic surfaces prior to the application of nanotechnology enabled protective coatings.

**SECTION 2: HAZARDS IDENTIFICATION**

**Hazard Statement** H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation  
 H336 May cause drowsiness or dizziness



**Precautionary Statement (Prevention)** P210 Keep away from heat/sparks/open flames/hot surfaces – no smoking  
 P233 Keep container tightly closed  
 P240 Ground/bond container and receiving equipment  
 P241 Use explosion-proof electrical/ventilating/lighting/...../equipment  
 P242 Use only non-sparking tools  
 P243 Take precautionary measures against static discharge  
 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)** P303+P361+P353 If on skin or hair: remove/take off immediately all contaminated clothing. Rinse skin with water/shower  
 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.  
 P312 Call a POISON CENTER or doctor/physician if victim feels unwell  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**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.

**SAFETY DATA SHEET**

Product Name: **Nanoman Pre Cleaner**

FILE NO: NTP/PC/1003

SDS DATE: 01/06/2019

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Characterisation Ingredients**

Ingredient	CAS Number	EC Number	Content
Propan-2-ol (Isopropyl Alcohol)	67-63-0		70-99%
Water	7732-18-5		20-30%
Proprietary Ingredients			Remainder

**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 based on judgement of doctor and individual reactions of the patient.

**SECTION 5: FIRE-FIGHTING MEASURES**

- Specific Measures:** Caution: Use of water spray when fighting fire may be insufficient.  
Small fire: use foam, dry chemical, CO2 or water spray.  
Large Fire: Use foam, fog or water spray – Do not use water jets.  
If safe to do so, move undamaged containers from fire area.  
Cool containers with flooding quantities of water until well after fire is out.  
Avoid getting water inside containers. Alcohol resistant foam is a preferred firefighting medium, but if not available, fine water spray can be used.
- Specific Hazards:** HIGHLY FLAMMABLE: These liquids have a low flashpoint - Will be easily ignited by heat, sparks or flame. Vapours will form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Most vapours are heavier than air and will collect in low or confined areas (drains, basements, tanks). Containers may explode when heated. Vapours from runoff may create explosion hazard
- Hazchem Code:** 2YE
- 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 exercised regarding personnel safety and exposure to be spilled material. Eliminate all sources of ignition and wear protective clothing. Absorb small spills onto paper towels and evaporate in a safe place. Flush the contaminated area with plenty of water.
- Large spills:** Stop leak if you can do it without risk. Eliminate all sources of ignition and static; restrict access to area until completion of clean-up procedure. Wear adequate protective equipment,

**SAFETY DATA SHEET**

Product Name: **Nanoman Pre Cleaner**

FILE NO: NTP/PC/1003

SDS DATE: 01/06/2019

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. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. Open and handle container with care. Keep away from open fire. Keep away from heating sources. Keep away from sources of ignition
- Conditions for safe Storage:** Keep container tightly closed in a cool, dry and well-ventilated place away from direct sunlight and other sources of heat or ignition. Store away from oxidising agents. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Check regularly for leakage.
- Storage Regulations:** Refer Australian Standard AS 1940 -2004 "the storage and handling of flammable and combustible liquids".
- Storage class:** 2A flammable liquid

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

National Exposure Standard:	Name	CAS No	STEL		TWA	
			mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
	Propan-2-ol (Isopropyl Alcohol)	67-63-0	1230	500	983	400

- Other Exposure Information:** A time weighted average (TWA) has been established for Propan-2-ol (Safe Work .Australia) of 983 mg/m<sup>3</sup>, (400 ppm). The corresponding STEL level is 1,230 mg/m<sup>3</sup>, (500 ppm). The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.
- Appropriate Engineering Controls:** In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
- 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. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.
- 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:** Impermeable clothing. Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.

## SAFETY DATA SHEET

Product Name: **Nanoman Pre Cleaner**

FILE NO: NTP/PC/1003

SDS DATE: 01/06/2019

### Equipment:

**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

<b>Form:</b>	Liquid
<b>Appearance:</b>	Colourless
<b>Odor:</b>	Alcoholic, sharp
<b>Melting Point:</b>	-89°C
<b>Boiling Point:</b>	82-83°C
<b>Solubility in Water:</b>	fully miscible
<b>Flash Point:</b>	12 °C
<b>Vapor Pressure:</b>	42 hPa at 20 °C
<b>Specific Gravity:</b>	0.785 – 0.786 g/cm <sup>3</sup> at 20 °C
<b>Relative Density:</b>	0.822 kg/l (at 20° C)
<b>Ignition Temp.</b>	ca. 425 °C
<b>Evaporation Rate:</b>	0.300 (n=BuAc = 1)
<b>Explosion Limits:</b>	lower: 2.0 Vol-%      upper: 13.4 Vol-%
<b>pH (500 g/l H<sub>2</sub>O):</b>	n.a
<b>Dynamic viscosity:</b>	2.4 mPa.s (at 20° C)
<b>Kinematic viscosity</b>	3.05 mm <sup>2</sup> /s (at 20° C)
<b>Volatile Organic Compounds (VOC):</b>	99.57%      818.426g/l

## SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal use conditions

**Conditions to Avoid** Heat, sparks, flame and build up of static electricity.

### Incompatibility (Material To Avoid):

Acids, alkalines, oxidants, reductants.

### Hazardous Decomposition

Does not decompose with normal use.

## SECTION 11: TOXICOLOGICAL INFORMATION

**SAFETY DATA SHEET**

Product Name: **Nanoman Pre Cleaner**

FILE NO: NTP/PC/1003

SDS DATE: 01/06/2019

- 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:** Unlikely under normal occupational exposures, but swallowing a minor amount may cause minor throat irritation and vomiting. Ingestion of larger amounts (about 100 grams or more) may cause headache, dizziness, drowsiness, inebriation, unconsciousness, narcosis, gastrointestinal pain, cramps, nausea, vomiting and diarrhoea. Large amounts may cause respiratory paralysis, coma, unconsciousness and death. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Aspiration can result in severe, life-threatening lung damage.
- Eye Contact:** Moderate to severe eye irritant, based on animal evidence. Exposure of volunteers to vapours at approximately 400 ppm for 3 to 5 minutes produced mild irritation, while 800 ppm was considered objectionable. Direct eye contact with the liquid and splashes may cause severe eye irritation, pain, redness, possible corneal burns and eye damage..
- 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, vomiting, dizziness, drowsiness 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

**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**

	<b>Land Transport</b>	<b>Sea Transport (IMDG / IMO)</b>	<b>Air Transport (IATA / ICAO)</b>
UN Number	1170	1170	1170
Proper Shipping Name	ISOPROPANOL (ISOPROPYL ALCOHOL)	ISOPROPANOL (ISOPROPYL ALCOHOL)	ISOPROPANOL (ISOPROPYL ALCOHOL)
DG Class	3	3	3
Identification Number of Hazard	33	33	33
Hazchem Code	2YE	2YE	2YE
Packaging Group	II	II	II
Marine pollutant	no	no	no

**SECTION 15: REGULATORY INFORMATION**

- Classification:** Highly Flammable
- Poisons Schedule:** Not scheduled

**SECTION 16: OTHER INFORMATION**

**SAFETY DATA SHEET**

Product Name: **Nanoman Pre Cleaner**

FILE NO: NTP/PC/1003

SDS DATE: 01/06/2019

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