

Material Safety Data Sheet

MSDS North America / ANSI Z400.1_USA / English



Nanoprotex®

Issue Date: 01/11/06

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1. Chemical, Product & Company Information

Product Name: Nanoprotex®

Supplier: Nanotec Pty Ltd
Unit 9, 108 Old Pittwater Road
Brookvale NSW 2100 Australia

Emergency Health Information: +61 2 9905 8111
Emergency Spill: 1 (800) 424-9300
Information: Chemtrec (USA)
Other Product Information: +61 2 9905 8111
e-mail: nanotec@nanotec.com.au

2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limit
Water, deionised	7732-18-5	>90	None Established
Metal Oxides	Listed	<1	
Metalloids		<1	N/A
Active Components		<1-5%	

3. Hazard Identification

Physical State: Liquid
Colour: Colourless
Emergency Overview: No special dangers admits
No UN-number required
Avoid contact with skin and eyes

Potential Health Effects (see Toxicological Information – section 11)

Eyes: May cause mild eye irritation
Skin: Unlikely to cause appreciable irritation even on repeated contact. Unlikely to absorb in harmful amounts. Prolonged contact cause mild irritation.
Inhalation: Prolonged exposure can be mild irritating to eyes, nose and respiratory tract.
Ingestion: No known effects.

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4. First Aid Measures

Eye Contact:	In case of eye contact, immediately flush eyes with water for at least 15 minutes. Seek medical attention if irritation occurs.
Skin Contact:	In case of skin contact, flush skin with water.
Inhalation:	If inhaled, remove to fresh. Seek medical attention if symptoms appear.
Ingestion:	DO NOT induce vomiting unless directed by medical personnel. If swallowed in large volume, seek medical assistance immediately.

5. Fire Fighting Measures

Flammability of Product:	Non-Flammable
Auto ignition Temperature:	Not Applicable
Flash Points Flammable Limits:	Not Applicable
Products of Combustion:	None
Unusual Fire/Explosive Hazards:	Not Applicable

Fire Fighting Media & Instructions: Use extinguishing media appropriate for surrounding fire.

6. Accidental Release Measures

Small Spill and/or Leak:	Small quantities can be mopped or wiped up with rags. Add absorbent (soil may be used in the absence of other suitable materials).
Large Spill and/or Leak:	Large quantities should be directed to collecting basin or drain with dikes or swabs.

7. Handling & Storage

Handling:	Keep container closed
Storage:	Store out of direct sunlight. Suitable for any general chemical storage area. Protect from freezing. Water is considered a non-regulated product, but may react vigorously with some specific materials. Avoid contact with all materials until investigation shows substance is compatible.

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8. Exposure Controls, Personal Protection

Engineering Controls:	None required
Personal Protection:	Gloves. Safety Goggles
Eyes:	Avoid contact with eyes. Wear chemical splash goggles
Skin & Body:	Avoid extended contact with skin
Respiratory:	If used in a confined space use filter mask
Hands:	Wear gloves that cannot be penetrated by chemicals or oils

9. Physical & Chemical Properties

Physical State	Liquid
Odour	Nearly odourless
Colour	Colourless
Flash Point	> 66° (151°F) Not flammable
PH	~ 4.5-5.5
Boiling/Condensation	0°C (32°F) based on data of water
Point Specific Gravity	~ 1.0 g/cm ³ (water = 1)
Vapour Pressure Vapour Density	Not Available
Odour Threshold	Not Applicable
Evaporation Rate	1
LogK..	Not Applicable
Dispersion	
Solubility	Soluble in water

10. Stability & Reactivity

Stability & Reactivity:	The product is stable
Conditions to Avoid:	Extreme temperatures – frost
Incompatibility with:	Strong Acids, Bases. Water reactive materials. Corrosive metals

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11. Toxicological Information

Acute Toxicity:	Not Applicable	
Chronic Toxicity:	Not Applicable	
Other Information:	For water:	LD50 Oral Rat: > 90 ml/Kg
	Carcinogenicity:	CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP or CA Prop 65

12. Ecological Information

Ecotoxicity:	Practically non-toxic to organisms
Persistence Potential:	Product is biodegradable

13. Disposal Considerations

Waste Information:	Waste must be disposed of in accordance with federal, state and local environmental control regulations
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14. Transport Information

The product is NOT classified as Dangerous Goods
Hazard warning NOT required

DOT Classification	Not Regulated
Marine Pollutant	Not Pollutant
Special Provisions for Transport	None
IMO/IMDG	
Classification	Non Hazardous
Proper Shipping Name	Not Applicable
IMDG Class	
UN Number	No UN Number required
Packing Group	
Marine Pollutant	
ICAO/IATA	
Classification	Non Hazardous
Proper Shipping Name	
UN Number	No UN Number
Packing Group	

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15. Regulatory Information

US Regulations

US INVENTORY (TSCA): Listed on inventory

State Regulations:

Pennsylvania RTK:

Massachusetts RTK:

California prop. 65. No products were found

Other Regulations:

AUSTRALIAN INVENTORY (AICS): Listed on 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

PHILIPPINE INVENTORY (PICCS): Listed on inventory

Australian Hazchem Code: No information found

16. Other Information

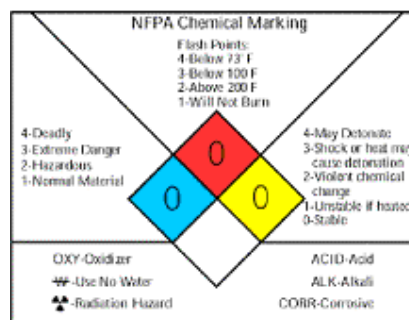
Label Requirements:

No special labelling required

Hazardous Material Information System (USA)

HEALTH	0
FIRE HAZARD	0
REACTIVITY	0

National Fire Protection Association (USA)



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17. Disclaimer

The information in the MSDS is based on the present state of knowledge and current legislation. The information provides guidance on health, safety and environmental aspects. For further information about technical performance and application refer to the technical data sheet for this product. Although Nanotec has tried to make it as accurate as possible, we can take no responsibility for its use or misuse.

Notice to Reader

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 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.

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