SAFETY DATA SHEET
Version 2.1
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Section 1 - Product and Company Information
Product Name NanoVan™
Product Number 2011
Company Nanoprobes, Inc
Address 98 Horse Block Road, Yaphank, NY 11980, US
Technical Phone: 877-447-6266
Fax: 631-205-9493
Emergency Phone: 631-205-9490

Section 2 - Hazards Identification
Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008: The substance is not classified according to the CLP regulation. The material should be treated with caution

GHS Label elements, including precautionary statements
No information found

Hazards not otherwise classified (HNOC) or not covered by GHS
No information found

Section 3 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylamine vanadate</td>
<td>N/A</td>
<td>2 % (w/w)</td>
</tr>
<tr>
<td>Deionized water</td>
<td>7732-18-5</td>
<td>98 % (w/w)</td>
</tr>
</tbody>
</table>

Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Laboratory chemicals. Use as a negative stain for TEM

Section 4 - First Aid Measures
ORAL EXPOSURE
If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

INHALATION EXPOSURE
If inhaled, remove to fresh air. If not breathing give artificial respiration. Call a physician.

**DERMAL EXPOSURE**
In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

**EYE EXPOSURE**
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Most important symptoms and effects, both acute and delayed**
No data available

**Indication of any immediate medical attention and special treatment needed**
No data available

**Section 5 - Fire Fighting Measures**

**FLASH POINT**
N/A

**AUTOIGNITION TEMP**
N/A

**FLAMMABILITY**
N/A

**EXTINGUISHING MEDIA**
Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**Special hazards arising from the substance or mixture**
No data available

**FIREFIGHTING**
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Section 6 - Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation

**Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided

**Methods and materials for containment and cleaning up**
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal
Section 7 - Handling and Storage
HANDLING
User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE
Suitable: Keep container closed. Refrigerate on arrival. Store at 2-8°C.

Specific end use(s)
Apart from the uses mentioned in section 2, no other specific uses are stipulated

Section 8 - Exposure Controls / Personal Protection Control parameters
ENGINEERING CONTROLS
Ensure adequate ventilation, especially in confined areas

PERSONAL PROTECTIVE EQUIPMENT
Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.


Environmental exposure controls
Prevent product from entering drains

Section 9 - Physical/Chemical Properties
Appearance: Colorless to pale yellow aqueous solution
Odor: N/A
pH: 8.0
BP/BP Range: N/A
MP/MP Range: N/A
Flash Point: N/A
Explosion Limits: N/A
Flammability: N/A
Autoignition Temp: N/A
Water Solubility: Soluble
Decomposition Temperature: N/A
Viscosity: N/A
Oxidizing properties: N/A

N/A = not available

Section 10 - Stability and Reactivity
Reactivity
No data available

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
No data available

Conditions to avoid
No data available

Incompatible materials
No data available

Hazardous decomposition products
No data available

Section 11 - Toxicological Information
Information on toxicological effects
Acute toxicity
No data available

Inhalation
No data available

Dermal
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
No data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available
Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information Repeated dose toxicity
No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Section 12 - Ecological Information
Toxicity
No data available

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects
No data available

Section 13 - Disposal Considerations
Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

Section 14 - Transport Information
DOT (US)
Not dangerous goods

IMDG
Not dangerous goods
IATA
Not dangerous goods

Section 15 - Regulatory Information
SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components
No components are subject to the Pennsylvania Right to Know Act

New Jersey Right To Know Components
No components are subject to the New Jersey Right to Know Act

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 - Other Information
DISCLAIMER
For R&D use only. Not for drug, household or other uses.

WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Nanoprobes Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.