Product x-nano<sup>TM</sup> MICR Black HD2b-156

**Revision Date** 06/29/2016

Revision 4

SDS Number 1503



# **Safety Data Sheet**

#### **SECTION 1: IDENTIFICATION**

Product Name x-nano<sup>TM</sup> MICR Black HD2b-156

Product Code xnMB-0102-156 Identifier Uses Inkjet printing.

Supplier Diversified NANO Solutions Corporation

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### **SECTION 2: HAZARDS IDENTIFICATION**

Appearance Liquid.
Color Black
Odor Odorless

Pictogram(s) No pictogram required

Signal Word Warning

**Hazard Statements** H303 May be harmful if swallowed

**Precautionary Statements** P102 Keep out of reach of c h i l d r e n.

P264 Wash [\*] thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P281 Use personal protective equipment as required.

**Contains** Ethanediol Ethylene Glycol

**GHS Classification** 

Physical and Chemical Hazards Not classified
Human Health Acute Tox. 5 - H303
Environment Not classified

OSHA Regulatory Status This product is Hazardous under the OSHA Hazard communication Standard.

InhalationProlonged inhalation may result in irritation of the respiratory tract.IngestionMay cause irritation of digestive tract. May be harmful if swallowed.

**Skin contact** May stain skin and cause skin irritation.

Eye contact May cause eye irritation.
Routes of Exposure No Information available.

Other Hazards Not applicable.

### SECTION 3: Composition/Information on Ingredients

Name	Product Identifier	GHS Classification	%
Trade secrets materials	CAS-No.: Proprietary EC No.:		30-60%
[Glycerol	CAS-No.: 56-81-5 EC No.: 200-289-5		10-30%
lWater	CAS-No.:7732-18-5 EC No.: 231-791-2		10-30%
Ethanediol Ethylene Glycol	CAS-No.: 107-21-1 EC No.: 203-473-3	Acute Tox. 4 - H302	1-10%

**Composition Comments** 

## **SECTION 4: FIRST AID MEASURES**

Description of first aid measures

General Information General first aid, rest, warmth and fresh air, Inhalation Move the exposed person to fresh air at once.

Ingestion If ingestion of large amount, wash mouth out with water, and seek medical attention.

**Skin contact** Wash affected skin with water and soap to remove stain.

Eye contact Do not rub eyes. Flush eyes with clean, lukewarm water for at least 15 minutes, occasionally

lifting upper and lower eyelids to remove particles. If irritation persists seek medical

attention.

Most important symptoms and effects, both acute and delayed

General Information No information available.

Inhalation Prolonged inhalation may result in irritation of the respiratory tract. Ingestion May cause irritation of digestive tract. May be harmful if swallowed.

**Skin contact** May stain skin and cause skin irritation.

May cause eye irritation. Eve contact Routes of Exposure No Information available.

Most important symptoms and effects, both acute and delayed

Notes To The Physician Treat Symptomatically.

### **SECTION 5: Firefighting Measures**

Auto Ignition Temperature (°C) No Information available. Flammability Limit - Lower (%) No Information available Flammability Limit - Upper (%) No Information available.

Flash point 300 0 °F

**Extinguishing Media** Use water spray, dry chemical, carbon dioxide, or chemical foam.

Hazardous combustion products No information available.

Unusual Fire & Explosion Hazards No unusual fire or explosion hazards noted.

If possible, fight fire from protected position. Ventilate closed spaces before entering them. **Special Fire Fighting Procedures** 

Containers close to fire should be removed immediately or cooled with water.

Protective equipment for fire-

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH fighters

(approved or equivalent), and full protective gear.

#### **SECTION 6: Accidental Release Measures**

Personal Precautions Use proper personal protection (refer to Section 8). **Environmental Precautions** 

Avoid discharge into drains, water courses or onto the ground. Spill Clean Up Methods

Clean spilled area with absorbent materials, and wash with soap and water. Dispose of spill residue in accordance with federal, state, and local hazardous waste disposal regulations

(see Section XIII. Disposal Considerations). Affected area may remain stained.

### **SECTION 7: Handling and Storage**

Handling Wear gloves while handling, to avoid staining of skin. Avoid contact with eyes, and skin.

Avoid ingestion.

**Usage Description** Use only according to directions.

Storage Precautions Store in tightly closed container. Optimal temperature range for storage is 41°F - 95°F (5°C -

35°C). Keep out of reach of children. Keep away from sparks and open flames

Specific End Use(s) The identified uses are in section 1 of this Safety Data Sheet.

## SECTION 8: Exposure Controls/Personal Protection

#### **Protective Equipment**



Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
Glycerol	OSHA		15mg/m3			Inhalable Dust.
Glycerol	OSHA		5mg/m3			Respirable Dust

Ingredient Comments OSHA

**Process Conditions** Keep container tightly sealed when not in use. Provide eyewash, quick drench.

**Engineering Measures** Provide adequate ventilation.

Respiratory EquipmentNot normally required if good ventilation is maintained.Hand ProtectionWear appropriate protective gloves to prevent skin exposure.Eye ProtectionWear protective goggles to minimize exposure to eyes.

Hygiene Measures DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before

eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or

smoke.

## **SECTION 9: Physical and Chemical Properties**

### Information on Basic Physical and Chemical Properties

Appearance Liquid.
Color Black
Odor Odorless

Odor Threshold - Lower No Information available.

Odor Threshold - Upper No Information available.

pH-Value, Conc. Solution 7.0-7.6

Melting point No Information available.

Initial boiling point and boiling

range

205.0 - 208.0 °F

Flash point 300.0 °F

**Evaporation rate** No Information available.

Flammability State No Information available.

Flammability Limit - Lower (%) No Information available.

Flammability Limit - Upper (%) No Information available.

Vapor pressure Not determined.

Vapor Density (air=1)

 $\textbf{Relative density} \hspace{1.50\text{-}1.60 \text{ g/ml}}$ 

Bulk Density No Information available.

Solubility Soluble in water

**Decomposition temperature** No Information Available

Partition coefficient; n-octanol/water Notknown.

Auto Ignition Temperature (°C) No Information available.

Viscosity 12.8-17.1 cPs

**Explosive Properties** No information available.

Oxidizing Properties No Information available.

Molecular Weight No Information available.

Volatile Organic Compound 3.0

## **SECTION 10: Stability and Reactivity**

**Reactivity** Reactions may occur with strong oxidizers.

**Stability** Stable at recommended storage conditions.

Hazardous Polymerization Hazardous polymerization is not expected to occur under normal temperatures and

pressures..

Hazardous Decomposition Products Oxides of carbon and water.

Conditions to Avoid Avoid contact with strong oxidizers.

Materials to Avoid Keep away from strong oxidizers.

### **SECTION 11: Toxicological Information**

**Toxicological Information** No Information available.

Acute Toxicity (Oral LD50)

Acute Toxicity (Dermal LD50)

Acute Toxicity (Inhalation LC50)

No Information available.

No Information available.

**Skin Corrosion/Irritation** No Information available.

Respiratory Sensitization No Information available.
Skin Sensitization No Information available.
Reproductive Toxicity: No Information available.
Germ Cell Mutagenicity:

Germ Cell Mutagenicity: Genotoxicity - In Vitro Genotoxicity - In Vivo

Carcinogenicity:

**Carcinogenicity** No Information available.

NTP-Carcinogenicity

OSHA-Carcinogenicity

The product and its components are not listed.

Specific Target Organ Toxicity - Single Exposure:

STOT -Single Exposure No Information available.

Specific Target Organ Toxicity - Repeated Exposure:

**STOT - Repeated Exposure** No Information available.

## **SECTION 12: Ecological Information**

**Eco toxicity** No Information available.

Acute Toxicity - Fish No Information available.
Acute Toxicity - Aquatic No Information available.

Invertebrates

Acute Toxicity - Aquatic Plants No Information available.

**Degradability** No information available.

Bio accumulative Potential No Information available.

**Mobility** Completely soluble in water.

Results of PBT and vPvB Assessment No information available.

Other Adverse Effects No information available

#### **SECTION 13: Disposal Considerations**

Waste Management When handling waste, consideration should be made to the safety precautions applying to

handling of the product.

Disposal Methods Waste disposal must be in accordance with appropriate federal, state, and local regulations.

### **SECTION 14: Transport Information**

### **UN Number**

UN No. (DOT/TDG)
UN No. (IMDG)
UN No. (IATA)
Not applicable.
Not applicable.

#### **Proper Shipping Name**

DOT/TDGProperShippingNameNot applicable.IMDG Proper Shipping NameNot applicable.IATA Proper Shipping NameNot applicable.

### Transport Hazard Class(es)

DOT/TDG ClassNot applicable.IMDG ClassNot applicable.IATA ClassNot applicable.

Transport Labels Not applicable

### Packing Group(s)

DOT Packing Group

IMDG Packing Group

IATA Packing Group

Not applicable.

Not applicable.

## **Special Precautions for User**

**EMS** Not applicable.

## **Environmentally Hazardous Substance/Marine Pollutant**

ADR No IMDG No IATA No

## **SECTION 15: Regulatory Information**

#### CAA Accidental ReleasePrevention

The Following ingredients are listed ethanediol ethylene glycol

### **OSHA Highly Hazardous Chemicals**

The Following ingredients are listed None Listed.

#### **US State Regulations**

### California Proposition 65 Carcinogens and Reproductive Toxins

The Following ingredients are listed None Listed.

#### California Air Toxics "Hot Spots" (A-I)

The Following ingredients are listed None Listed.

#### California Air Toxics "Hot Spots" (A-Ii)

The Following ingredients are listed None Listed.

#### Massachusetts "Right To Know" List

The Following ingredients are listed Glycerol

Ethanediol Ethylene glycol

Minnesota "Right To Know" List

The Following ingredients are listed Glycerol

Ethanediol Ethylene Glycol

New Jersey "Right To Know" List

The Following ingredients are listed Glycerol

Ethanediol Ethylene Glycol

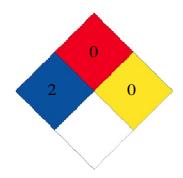
Pennsylvania "Right To Know" List

The Following ingredients are listed Glycerol

Ethanediol Ethylene Glycol

### **SECTION 16: Other Information**

# NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



### HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

Health	2
Flammability	0
Physical Hazard	0
Personal Protection	В

**Revision Comments** No Information available.

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 02/19/2016

 Revision
 4

#### Disclaimer

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