

**Product** x-nano™ MICR Black HD3X-1G  
**Revision Date** 07/22/2024  
**Revision** 6  
**SDS Number** 1502



## Safety Data Sheet

### SECTION 1: IDENTIFICATION

<b>Product Name</b>	<b>x-nano™ MICR Black HD3X-1G</b>
<b>Product Code</b>	<b>xnMB-0103-1G</b>
<b>Identifier Uses</b>	Inkjet printing.
 <b>Supplier</b>	 Diversified NANO Solutions Corporation 13446 Poway Road #202 Poway CA 92064
 <b>Contact Email</b>	 info@diversifiednano.com
<b>Emergency Telephone</b>	Call CHEMTREC Day or Night 1-800-424-9300 / +1 703-527-3887 CCN819098

### SECTION 2: HAZARDS IDENTIFICATION

<b>Appearance</b>	Liquid.
<b>Color</b>	Black
<b>Odor</b>	Odorless
 <b>Pictogram(s)</b>	 No pictogram required
<b>Signal Word</b>	Warning
<b>Hazard Statements</b>	H303 May be harmful if swallowed
<b>Precautionary Statements</b>	P102 Keep out of reach of children. P264 Wash [*] thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P281 Use personal protective equipment as required.
<b>Contains</b>	Ethanediol Ethylene Glycol
<b>GHS Classification</b>	
Physical and Chemical Hazards	Not classified
Human Health	Acute Tox. 5 - H303
Environment	Not classified
<b>OSHA Regulatory Status</b>	This product is Hazardous under the OSHA Hazard communication Standard.
<b>Inhalation</b>	Prolonged inhalation may result in irritation of the respiratory tract.
<b>Ingestion</b>	May cause irritation of digestive tract. May be harmful if swallowed.
<b>Skin contact</b>	May stain skin and cause skin irritation.
<b>Eye contact</b>	May cause eye irritation.
<b>Routes of Exposure</b>	No Information available.
<b>Other Hazards</b>	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%
Water	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

<b>General Information</b>	General first aid, rest, warmth and fresh air.
<b>Inhalation</b>	Move the exposed person to fresh air at once.
<b>Ingestion</b>	If ingestion of large amount, wash mouth out with water, and seek medical attention.
<b>Skin contact</b>	Wash affected skin with water and soap to remove stain.
<b>Eye contact</b>	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

<b>General Information</b>	No information available.
<b>Inhalation</b>	Prolonged inhalation may result in irritation of the respiratory tract.
<b>Ingestion</b>	May cause irritation of digestive tract. May be harmful if swallowed.
<b>Skin contact</b>	May stain skin and cause skin irritation.
<b>Eye contact</b>	May cause eye irritation.
<b>Routes of Exposure</b>	No Information available.

Most important symptoms and effects, both acute and delayed

<b>Notes To The Physician</b>	Treat Symptomatically.
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**SECTION 5: Firefighting Measures**

<b>Auto Ignition Temperature (°C)</b>	No Information available.
<b>Flammability Limit - Lower (%)</b>	No Information available.
<b>Flammability Limit - Upper (%)</b>	No Information available.
<b>Flash point</b>	300.0 °F
<b>Extinguishing Media</b>	Use water spray, dry chemical, carbon dioxide, or chemical foam.
<b>Hazardous combustion products</b>	No information available.
<b>Unusual Fire &amp; Explosion Hazards</b>	No unusual fire or explosion hazards noted.
<b>Special Fire Fighting Procedures</b>	If possible, fight fire from protected position. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water.
<b>Protective equipment for fire-fighters</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**SECTION 6: Accidental Release Measures**

<b>Personal Precautions</b>	Use proper personal protection (refer to Section 8).
<b>Environmental Precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>Spill Clean Up Methods</b>	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**

<b>Handling</b>	Wear gloves while handling, to avoid staining of skin. Avoid contact with eyes, and skin. Avoid ingestion.
<b>Usage Description</b>	Use only according to directions.
<b>Storage Precautions</b>	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.
<b>Specific End Use(s)</b>	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 Engineering Measures Respiratory Equipment Hand Protection Eye Protection Hygiene Measures

Keep container tightly sealed when not in use. Provide eyewash, quick drench.  
Provide adequate ventilation.  
Not normally required if good ventilation is maintained.  
Wear appropriate protective gloves to prevent skin exposure.  
Wear protective goggles to minimize exposure to eyes.  
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	6.9-7.7
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)	1
Relative density	1.39-1.45 g/ml
Bulk Density	No Information available.
Solubility	Soluble in water

<b>Decomposition temperature</b>	No Information Available
<b>Partition coefficient; n-octanol/water</b>	Not known.
<b>Auto Ignition Temperature ( °C)</b>	No Information available.
<b>Viscosity</b>	8.5-10.0 cPs
<b>Explosive Properties</b>	No information available.
<b>Oxidizing Properties</b>	No Information available.
<b>Molecular Weight</b>	No Information available.
<b>Volatile Organic Compound</b>	3.0

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## SECTION 10: Stability and Reactivity

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<b>Reactivity</b>	Reactions may occur with strong oxidizers.
<b>Stability</b>	Stable at recommended storage conditions.
<b>Hazardous Polymerization</b>	Hazardous polymerization is not expected to occur under normal temperatures and pressures..
<b>Hazardous Decomposition Products</b>	Oxides of carbon and water.
<b>Conditions to Avoid</b>	Avoid contact with strong oxidizers.
<b>Materials to Avoid</b>	Keep away from strong oxidizers.

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## SECTION 11: Toxicological Information

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<b>Toxicological Information</b>	No Information available.
<b>Acute Toxicity (Oral LD50)</b>	No Information available.
<b>Acute Toxicity (Dermal LD50)</b>	No Information available.
<b>Acute Toxicity (Inhalation LC50)</b>	No Information available.
<b>Skin Corrosion/Irritation</b>	No Information available.
<b>Respiratory Sensitization</b>	No Information available.
<b>Skin Sensitization</b>	No Information available.
<b>Reproductive Toxicity:</b>	No Information available.
<b>Germ Cell Mutagenicity:</b>	
<b>Genotoxicity - In Vitro</b>	
<b>Genotoxicity - In Vivo</b>	
<b>Carcinogenicity:</b>	
<b>Carcinogenicity</b>	No Information available.
<b>NTP - Carcinogenicity</b>	The product and its components are not listed.
<b>OSHA - Carcinogenicity</b>	The product and its components are not listed.
<b>IARC Carcinogenicity</b>	The product and its components are not listed.
<b>Specific Target Organ Toxicity - Single Exposure:</b>	
<b>STOT - Single Exposure</b>	No Information available.
<b>Specific Target Organ Toxicity - Repeated Exposure:</b>	
<b>STOT - Repeated Exposure</b>	No Information available.

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## SECTION 12: Ecological Information

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<b>Eco toxicity</b>	No Information available.
<b>Acute Toxicity - Fish</b>	No Information available.
<b>Acute Toxicity - Aquatic</b>	No Information available.

<b>Invertebrates</b>	
<b>Acute Toxicity - Aquatic Plants</b>	No Information available.
<b>Degradability</b>	No information available.
<b>Bio accumulative Potential</b>	No Information available.
<b>Mobility</b>	Completely soluble in water.
<b>Results of PBT and vPvB Assessment</b>	No information available.
<b>Other Adverse Effects</b>	No information available

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### SECTION 13: Disposal Considerations

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<b>Waste Management</b>	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
<b>Disposal Methods</b>	Waste disposal must be in accordance with appropriate federal, state, and local regulations.

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### SECTION 14: Transport Information

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#### UNNumber

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

#### Proper Shipping Name

<b>DOT/TDG Proper Shipping Name</b>	Not applicable.
<b>IMDG Proper Shipping Name</b>	Not applicable.
<b>IATA Proper Shipping Name</b>	Not applicable.

#### Transport Hazard Class(es)

<b>DOT/TDG Class</b>	Not applicable.
<b>IMDG Class</b>	Not applicable.
<b>IATA Class</b>	Not applicable.
<b>Transport Labels</b>	Not applicable

#### Packing Group(s)

<b>DOT Packing Group</b>	Not applicable.
<b>IMDG Packing Group</b>	Not applicable.
<b>IATA Packing Group</b>	Not applicable.

#### Special Precautions for User

<b>EMS</b>	Not applicable.
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#### Environmentally Hazardous Substance/Marine Pollutant

<b>ADR</b>	No
<b>IMDG</b>	No
<b>IATA</b>	No

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### SECTION 15: Regulatory Information

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<b>CAA Accidental Release Prevention</b>	
The Following ingredients are listed	ethanediol ethylene glycol
<b>OSHA Highly Hazardous Chemicals</b>	
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**

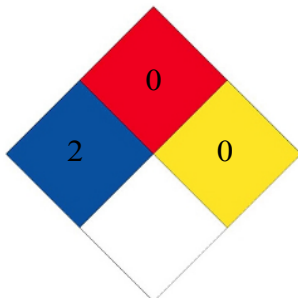
The Following ingredients are listed      Glycerol  
Ethanediol Ethylene Glycol

**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)**

<b>Health</b>	<b>2</b>
<b>Flammability</b>	<b>0</b>
<b>Physical Hazard</b>	<b>0</b>
<b>Personal Protection</b>	<b>B</b>

Revision Comments      No Information available.  
Revision Date      07/22/2024  
Supersedes Date      05/27/2022  
Revision      6

**Disclaimer**

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