Productx-nanoTM MRevision Date12/09/2019Revision4

x-nano<sup>TM</sup> MICR Black HD-2a

SDS Number 1505



# Safety Data Sheet

## **SECTION 1: IDENTIFICATION**

Product Name Product Code Identifier Uses x-nano<sup>TM</sup> MICR Black HD-2a xnMB-0102-E2A

Supplier

Inkjet printing.

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## **SECTION 2: HAZARDS IDENTIFICATION**

Appearance Color Odor	Liquid. Black Odorless
Pictogram(s)	
Signal Word	Warning
Hazard Statements	H303 May be harmful if swallowed H373 May cause damage to organs (kidney) through prolonged or repeated exposure (if swallowed)
Precautionary Statements	<ul> <li>P102 Keep out of reach of c h i l d r e n .</li> <li>P260 Do not breathe mist/vapours.</li> <li>P264 Wash [*] thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P281 Use personal protective equipment as required.</li> <li>P301+P312 IF SWALLOWED: Call a POISON CONTROL or doctor if you feel unwell.</li> </ul>
Contains	Ethanediol Ethylene Glycol
GHS Classification Physical and Chemical Hazards Human Health Environment	Not classified Acute Tox. 4 - H303, H373 Not classified

OSHA Regulatory Status	This product is Hazardous under the OSHA Hazard communication Standard.
Inhalation	Prolonged inhalation may result in irritation of the respiratory tract.
Ingestion	May cause irritation of digestive tract. May be harmful if swallowed.
Skincontact	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		1-10%
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 - H303, H373	10-30%

**Composition Comments** 

## SECTION 4: 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.
Skincontact	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, occasionall
	lifting upper and lower eyelids to remove particles. If irritation persists seek medical
important symptoms and effects,	attention.
important symptoms and effects,	attention.
General Information	attention.
	attention.
General Information	attention. <u>both acute and delayed</u> No information available.
General Information Inhalation	attention. <u>both acute and delayed</u> No information available. Prolonged inhalation may result in irritation of the respiratory tract.
General Information Inhalation Ingestion	attention. <u>both acute and delayed</u> No information available. Prolonged inhalation may result in irritation of the respiratory tract. May cause irritation of digestive tract. May be harmful if swallowed.

 Most important symptoms and effects, both acute and delayed

 Notes To The Physician
 Treat Symptomatically.

# SECTION 5: Firefighting Measures

Auto Ignition Temperature (°C) Flammability Limit - Lower (%) Flammability Limit - Upper (%) Flash point	No Information available. No Information available. No Information available. 300.0 °F
Extinguishing Media Hazardous combustion products Unusual Fire & Explosion Hazards Special Fire Fighting Procedures	Use water spray, dry chemical, carbon dioxide, or chemical foam. No information available. No unusual fire or explosion hazards noted. 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.
Protective equipment for fire- fighters	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

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 $41^{\circ}F$ - $95^{\circ}F$ (5°C -
	$35^{\circ}$ 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 (1	5mins)	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.
<b>Engineering Measures</b>	Provide adequate ventilation.
Respiratory Equipment	Not normally required if good ventilation is maintained.
Hand Protection	Wear appropriate protective gloves to prevent skin exposure.
Eye Protection	Wear 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 Color Odor	Liquid. Black Odorless
Odor Threshold - Lower	No Information available.
Odor Threshold - Upper	No Information available.
pH-Value, Conc. Solution	7.1-7.6
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)	1
Relative density	1.39-1.45 g/ml
<b>Bulk Density</b>	No Information available.
Solubility	Soluble in water
<b>Decomposition temperature</b>	No Information Available
Partition coefficient; n-octanol/wa	t <b>er</b> Not known.
Auto Ignition Temperature (°C)	No Information available.
Viscosity	6.0-9.0 cPs
Explosive Properties	No information available.
Oxidizing Properties	No Information available.
Molecular Weight	No Information available.
Volatile Organic Compound	3.0

ECTION 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. No Information available.
Skin Corrosion/Irritation	No Information available.
Respiratory Sensitization Skin Sensitization Reproductive Toxicity: Germ Cell Mutagenicity: Genotoxicity - In Vitro Genotoxicity - In Vivo	No Information available. No Information available. No Information available.
Carcinogenicity: Carcinogenicity	No Information available.

NTP - Carcinogenicity	
OSHA - Carcinogenicity	
IARC Carcinogenicity	

The product and its components are not listed. The product and its components are not listed. The product and its components are not listed.

Specific Target Organ Toxicity - Single Exposure:STOT - Single ExposureNo Information available.Specific Target Organ Toxicity - Repeated Exposure:No Information available.STOT - Repeated ExposureNo 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**

#### <u>UN Number</u>

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

#### **Proper Shipping Name**

DOT/TDG Proper Shipping Name	Not applicable.
IMDG Proper Shipping Name	Not applicable.
IATA Proper Shipping Name	Not applicable.

#### Transport Hazard Class(es)

DOT/TDG Class IMDG Class	Not applicable. Not applicable.
IATA Class	Not applicable.
Transport Labels	Not applicable
Packing Group(s)	
DOT Packing Group	Not applicable.
IMDG Packing Group	Not applicable.
IATA Packing Group	Not applicable.

#### **Special Precautions for User**

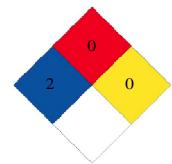
Not applicable.

ADR	No
IMDG	No
ΙΑΤΑ	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 Carcinoge	ns and Reproductive Toxins
The Following ingredients are listed	None Listed.
California Air Toxics "Hot Spots" (A	-1)
The Following ingredients are listed	None Listed.
California Air Toxics "Hot Spots" (A	-li)
The Following ingredients are listed	None Listed.
Massachusetts "Right To Know" List	t
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

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#### Disclaimer

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