

**Product** x-nano™ Universal JetFix 2A  
**Revision Date** 05/04/2016  
**Revision** 4  
**SDS Number** 1516



## Safety Data Sheet

### SECTION 1: IDENTIFICATION

<b>Product Name</b>	x-nano™ Universal JetFix 2A
<b>Product Code</b>	xnJF-0101 / Abbreviated Part # : xnJF-1
<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>	Clear
<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 hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P281 Use personal protective equipment as required.
<b>Contains</b>	Glycerol
<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>	No specific symptoms noted, inhalation is not believed to be a likely route of exposure.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	Prolonged contact may cause redness and/or tearing.
<b>Routes of Exposure</b>	Unknown.
<b>Other Hazards</b>	Not applicable.

**SECTION 3: Composition/Information on Ingredients**

Name	Product Identifier	GHS Classification	%
Glycerol	CAS-No.: 56-81-5 EC No.: 200-289-5		1-10%
Trade secret materials	CAS-No.: Proprietary EC No.:		1-10%
Water	CAS-No.: 7732-18-5 EC No.: 231-791-2		Balance

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**

Remove contaminated clothing immediately and wash skin with soap and water.

**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**

The severity of the symptoms described will vary dependent of the concentration and the length of exposure.

**Inhalation**

No specific symptoms noted, inhalation is not believed to be a likely route of exposure.

**Ingestion**

May cause irritation of digestive tract. May be harmful if swallowed.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

Prolonged contact may cause redness and/or tearing.

**Routes of Exposure**

Unknown.

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.

**Special Fire Fighting Procedures**

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**

Wear protective clothing as described in Section 8 of this safety data sheet.

**Environmental Precautions**

Do not 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

<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 containers. Do not store in unlabeled containers. Avoid cold temperatures. Optimal temperature range for storage is 41°F - 95°F (5°C - 35°C). Keep away from sparks and open flames. Keep away from oxidizing materials. Keep out of reach of children.
<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

<b>Process Conditions</b>	Keep container tightly sealed when not in use. Provide eyewash, quick drench.
<b>Engineering Measures</b>	Use adequate ventilation.
<b>Respiratory Equipment</b>	Use in well ventilated area.
<b>Hand Protection</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Eye Protection</b>	Wear protective goggles to minimize exposure to eyes.
<b>Hygiene Measures</b>	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

<b>Appearance</b>	Liquid
<b>Color</b>	Clear
<b>Odor</b>	Odorless
<b>Odor Threshold - Lower</b>	No Information available.
<b>Odor Threshold - Upper</b>	No Information available.
<b>pH-Value, Conc. Solution</b>	7.0-8.0
<b>Melting point</b>	No Information available.
<b>Initial boiling point and boiling range</b>	205.0 - 208.0 °F
<b>Flash point</b>	300.0 °F
<b>Evaporation rate</b>	No Information available.
<b>Flammability State</b>	No Information available.
<b>Flammability Limit - Lower (%)</b>	No Information available.
<b>Flammability Limit - Upper (%)</b>	No Information available.

Vapor pressure	No Information available.
Vapor Density (air=1)	No Information available.
Relative density	1.00 - 1.20 g/ml
Bulk Density	No Information available.
Solubility	Soluble in water
Decomposition temperature	No Information available.
Partition coefficient; n-octanol/water	No Information available.
Auto Ignition Temperature ( °C)	No Information available.
Viscosity	2.0-6.5 cps
Explosive Properties	No information available.
Oxidizing Properties	No Information available.
Molecular Weight	No Information available.
Volatile Organic Compound	No Information available.

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## SECTION 10: Stability and Reactivity

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Reactivity	Reactions may occur with strong oxidizers.
Stability	Stable under 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. Keep away from heat, sparks and open flame.
Materials to Avoid	Keep away from strong oxidizers.

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## SECTION 11: Toxicological Information

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Toxicological Information	No Information available for overall finished product.
Acute Toxicity (Oral LD50)	
Acute Toxicity (Dermal LD50)	
Acute Toxicity (Inhalation LC50)	
Skin Corrosion/Irritation	
Respiratory Sensitization	No Information available.
Skin Sensitization	No Information available.
Reproductive Toxicity:	No Information available.
Germ Cell Mutagenicity:	
Genotoxicity - In Vitro	
Genotoxicity - In Vivo	
Carcinogenicity:	
Carcinogenicity	No Information available.
NTP - Carcinogenicity	The product and its components are not listed.
OSHA - Carcinogenicity	The product and its components are not listed.
IARC 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.
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**SECTION 12: Ecological Information**


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Eco toxicity	No Ecological information on the finished product.
Acute Toxicity - Fish	No Information available.
Acute Toxicity - Aquatic Invertebrates	No Information available.
Acute Toxicity - Aquatic Plants	No Information available.
Degradability	No information available.
Bioaccumulative Potential	No Information available.
Mobility	No Information available.
Results of PBT and vPvB Assessment	No Information available.
Other Adverse Effects	No information available.

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**SECTION 13: Disposal Considerations**


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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.

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**SECTION 14: Transport Information**


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**UNNumber**

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	Not applicable.
IMDG Class	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**

EMS	Not applicable.
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**Environmentally Hazardous Substance/Marine Pollutant**

ADR	No
IMDG	No
IATA	No

**SECTION 15: Regulatory Information****CAA Accidental Release Prevention**

The Following ingredients are listed      None Listed.

**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

**Minnesota "Right To Know" List**

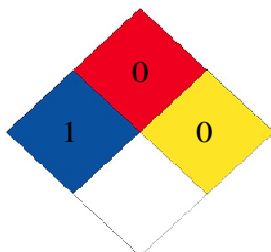
The Following ingredients are listed      Glycerol

**New Jersey "Right To Know" List**

The Following ingredients are listed      Glycerol

**Pennsylvania "Right To Know" List**

The Following ingredients are listed      Glycerol

**SECTION 16: Other Information****NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)****HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

<b>Health</b>	<b>1</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      05/04/2016

Supersedes Date      02/19/2016

Revision      4

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.