

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



Safety Data Sheet

SECTION 1: IDENTIFICATION

| | |
|----------------------------|---|
| Product Name | x-nano™ Universal JetFix 2A |
| Product Code | xnJF-0101 / Abbreviated Part # : xnJF-1 |
| Identifier Uses | Inkjet printing. |
| | |
| Supplier | Diversified NANO Solutions Corporation 13446 Poway Road #202 Poway CA 92064 |
| | |
| Contact Email | info@diversifiednano.com |
| Emergency Telephone | Call CHEMTREC Day or Night 1-800-424-9300 / +1 703-527-3887 CCN819098 |

SECTION 2: HAZARDS IDENTIFICATION

| | |
|---------------------------------|--|
| Appearance | Liquid |
| Color | Clear |
| 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 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. |
| Contains | Glycerol |
| | |
| 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. |
| | |
| Inhalation | No specific symptoms noted, inhalation is not believed to be a likely route of exposure. |
| Ingestion | 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. |
| Other Hazards | 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

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|----------------------------|--|
| 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

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|---|---|
| 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

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| 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

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|----------------------------|---|
| 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 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. |
| 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 | Use adequate ventilation. |
| Respiratory Equipment | Use in well ventilated area. |
| 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 | Liquid |
| Color | Clear |
| Odor | Odorless |
| Odor Threshold - Lower | No Information available. |
| Odor Threshold - Upper | No Information available. |
| pH-Value, Conc. Solution | 7.0-8.0 |
| 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 | 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. |

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. |

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.

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. |

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. |

SECTION 14: Transport Information

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

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|-----|-----------------|
| EMS | Not applicable. |
|-----|-----------------|

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-li)

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

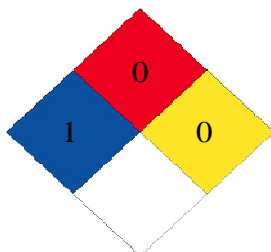
The Following ingredients are listed Glycerol

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)

| | |
|----------------------------|---|
| Health | 1 |
| Flammability | 0 |
| Physical Hazard | 0 |
| Personal Protection | 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.