

# **SAFETY DATA SHEET**

Published DateRevision DateRevision NumberMay-30-2019May-29-20192.5

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product code LWS2000MA
Product name Magenta

Product category 2000 Series Micro Piezo Inkjet Ink

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use
Recommended use Printing operations

Details of the supplier of the safety data sheet

UNITED STATES
UNITED KINGDOM
Nazdar Company
Nazdar Limited
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Shawnee, KS 66227
Barton Road
Heaton Mersey

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Fax: +001-913-422-2294 www.nazdar.com

Emergency telephone number

USA: Chemtrec: +001-800-424-9300 Outside USA: Chemtrec: +001-703-527-3887

24 Hour Emergency Phone Number

# 2. HAZARDS IDENTIFICATION

#### Classification

| Serious eye damage/eye irritation                | Category 1 - (H318) |
|--|---------------------|
| Specific target organ toxicity (single exposure) | Category 3 - (H336) |

## Label elements





## Signal Word Danger

#### **Hazard Statements**

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

### **Precautionary Statements**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P280 - Wear protective gloves/protective clothing/eye protection/face protection

#### Hazards not otherwise classified (HNOC)

No information available.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### <u>Mixture</u>

Ingestion

| Component                               | CAS-No   | Weight % | Trade  | Note |
|---|----------|----------|--------|------|
|   |          | _        | Secret |      |
| Diethylene glycol diethyl ether         | 112-36-7 | 30 - 60  | *      |      |
| Butyrolactone                           | 96-48-0  | 10 - 30  | *      |      |
| Ethylene glycol monobutyl ether acetate | 112-07-2 | 5 - 10   | *      |      |
| Triethylene glycol monobutyl ether      | 143-22-6 | 1 - 5    | *      |      |

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

#### **Description of first aid measures**

**General Advice** Show this safety data sheet to the doctor in attendance.

**Eye Contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Get medical attention if irritation develops and

persists.

**Skin Contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Remove

contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.

**Inhalation** Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or

stopped, administer artificial respiration. Get medical attention immediately.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a

physician or poison control center immediately.

## Most important symptoms and effects, both acute and delayed

None under normal use conditions.

## Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

## **Suitable Extinguishing Media**

Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available.

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

# **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Personal Precautions Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and

clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people

away from and upwind of spill/leak.

## **Environmental precautions**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

## Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

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

product. Ensure adequate ventilation.

## Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

open flames, hot surfaces and sources of ignition. Keep container closed when not in use.

Keep out of the reach of children.

Incompatible Products Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

## **Exposure limits**

| Component                               | ACGIH TLV   |
|---|-------------|
| Ethylene glycol monobutyl ether acetate | TWA: 20 ppm |
| 112-07-2                                |             |

| Component                               | Ontario TWAEV |
|---|---------------|
| Ethylene glycol monobutyl ether acetate | TWA: 20 ppm   |
| 112-07-2                                |               |

## Appropriate engineering controls

**Engineering Measures** Provide a good standard of general ventilation. Natural ventilation is from doors, windows

etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In

case of insufficient ventilation, wear suitable respiratory equipment.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear safety glasses with side shields (or goggles). If splashes are likely to occur:. Wear

suitable face shield. Ensure that eyewash stations and safety showers are close to the

workstation location.

**Skin Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

**Hand Protection** Chemical resistant protective gloves.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6,

corresponding >480 minutes of permeation time): eg. nitrile rubber (0.4 mm), chloroprene

rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Due to different glove types, the manufacturer's directions for use should be observed. Replace gloves immediately when torn or any change in appearance is noticed such as

dimension, color, flexibility.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of

the material.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Wash hands before

eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of

equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid Appearance Colored Liquid

Odor Characteristic Odor Threshold No information available

Property Values Remarks • Method

pH No data available
Melting Point / Freezing Point No data available

Boiling Point / Boiling Range > 149 °C / 300 °F

Flash Point 82 °C / 180 °F Closed cup (Minimum)

**Evaporation rate**No data available

Flammability Limit in Air

Upper flammability limitNo data availableLower flammability limitNo data availableVapor PressureNo data available

Vapor Density No data available

Specific Gravity 0.99

Water Solubility

No data available
Solubility in other solvents

No data available
Partition coefficient: n-octanol/water

Autoignition Temperature

Decomposition temperature

No data available

Kinematic viscosity
No data available

Dynamic viscosity
No data available

Explosive Properties No data available Oxidizing Properties No data available

**Other Information** 

Photochemically Reactive No Weight Per Gallon (lbs/gal) 8.27

| VOC by weight %<br>(less water) | VOC by volume % (less water) | VOC lbs/gal<br>(less water) | VOC grams/liter<br>(less water) |
|---------------------------------|------------------------------|-----------------------------|---------------------------------|
| 93.06                           | 93.7                         | 7.71                        | 923.38                          |

# 10. STABILITY AND REACTIVITY

Reactivity

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No information available.

#### **Chemical stability**

Stable under normal conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

#### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO2). Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

InhalationSpecific test data for the substance or mixture is not available.Eye ContactSpecific test data for the substance or mixture is not available.Skin ContactSpecific test data for the substance or mixture is not available.IngestionSpecific test data for the substance or mixture is not available.

| Component  | Oral LD50         |
|--|-------------------|
| Diethylene glycol diethyl ether<br>112-36-7      | = 4970 mg/kg(Rat) |
| Butyrolactone<br>96-48-0                         | = 1540 mg/kg(Rat) |
| Ethylene glycol monobutyl ether acetate 112-07-2 | = 2400 mg/kg(Rat) |
| Triethylene glycol monobutyl ether 143-22-6      | = 5300 mg/kg(Rat) |

| Component                               | Dermal LD50           |
|---|-----------------------|
| Ethylene glycol monobutyl ether acetate | = 1500 mg/kg (Rabbit) |
| 112-07-2                                |                       |
| Triethylene glycol monobutyl ether      | > 2000 mg/kg (Rabbit) |
| 143-22-6                                |                       |

| Component  | Inhalation LC50        |  |
|--|------------------------|--|
| Butyrolactone<br>96-48-0                         | > 5100 mg/m³ (Rat) 4 h |  |
| Ethylene glycol monobutyl ether acetate 112-07-2 | > 400 ppm (Rat) 4 h    |  |

## Information on toxicological effects

**Symptoms** Specific test data for the substance or mixture is not available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Specific test data for the substance or mixture is not available.

**Eye damage/irritation** Specific test data for the substance or mixture is not available. Causes serious eye

damage. (based on components).

IrritationSpecific test data for the substance or mixture is not available.CorrosivitySpecific test data for the substance or mixture is not available.SensitizationSpecific test data for the substance or mixture is not available.Mutagenic EffectsSpecific test data for the substance or mixture is not available.Carcinogenic effectsSpecific test data for the substance or mixture is not available.Reproductive EffectsSpecific test data for the substance or mixture is not available.

STOT - single exposure Specific test data for the substance or mixture is not available. May cause drowsiness or

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dizziness. (based on components).

STOT - repeated exposure
Chronic Toxicity
Specific test data for the substance or mixture is not available.
Specific test data for the substance or mixture is not available
Specific test data for the substance or mixture is not available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component                               | ACGIH |
|---|-------|
| Ethylene glycol monobutyl ether acetate | A3    |
| 112-07-2                                |       |

#### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 2,043.00 mg/kg **ATEmix (dermal)** 26,303.00 mg/kg mg/l

ATEmix (inhalation-dust/mist) 26.30 mg/l ATEmix (inhalation-vapor) 193.00 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Specific test data for the substance or mixture is not available.

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Component                               | Algae/aquatic plants                         |
|---|--|
| Butyrolactone                           | 96h EC50 Desmodesmus subspicatus: = 79 mg/L  |
| 96-48-0                                 | 72h EC50 Desmodesmus subspicatus: = 360 mg/L |
| Ethylene glycol monobutyl ether acetate | 72h EC50 Desmodesmus subspicatus: > 500 mg/L |
| 112-07-2                                |  |
| Triethylene glycol monobutyl ether      | 72h EC50 Desmodesmus subspicatus: > 500 mg/L |
| 143-22-6                                |  |

| Component                          | Fish   |
|------------------------------------|--|
| Triethylene glycol monobutyl ether | 96h LC50 Pimephales promelas: = 2400 mg/L          |
|                                    | 96h LC50 Pimephales promelas: = 2400 mg/L (static) |

| Component                               | Crustacea                                 |
|---|---|
| Butyrolactone                           | 48h EC50 Daphnia magna Straus: > 500 mg/L |
| 96-48-0                                 |   |
| Ethylene glycol monobutyl ether acetate | 48h EC50 Daphnia magna: = 37 mg/L         |
| 112-07-2                                |   |
| Triethylene glycol monobutyl ether      | 48h EC50 Daphnia magna: > 500 mg/L        |
| 143-22-6                                |   |

## Persistence and Degradability

No information available.

## **Bioaccumulation**

No information available

| Component                               | Partition coefficient |
|---|-----------------------|
| Butyrolactone                           | -0.566                |
| 96-48-0                                 |                       |
| Ethylene glycol monobutyl ether acetate | 1.51                  |
| 112-07-2                                |                       |
| Triethylene glycol monobutyl ether      | 0.51                  |
| 143-22-6                                |                       |

## Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods Contain and dispose of waste according to local regulations.

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. TRANSPORT INFORMATION

**Note:** This information is not intended to convey all specific transportation requirements relating to

this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and

rules relating to the transportation of the material.

<u>DOT</u> Not regulated

Proper Shipping Name Printing Ink

ICAO / IATA / IMDG / IMO
Proper Shipping Name
Not Regulated
Printing Ink

## 15. REGULATORY INFORMATION

#### International Inventories

All components are listed on the TSCA Inventory. For further information, please contact:. Supplier (manufacturer/importer/downstream user/distributor).

## U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Component                               | CAS-No   | Weight % | SARA 313 - Threshold<br>Values |
|---|----------|----------|--------------------------------|
| Diethylene glycol diethyl ether         | 112-36-7 | 30 - 60  | 1.0                            |
| Ethylene glycol monobutyl ether acetate | 112-07-2 | 5 - 10   | 1.0                            |
| Triethylene glycol monobutyl ether      | 143-22-6 | 1 - 5    | 1.0                            |

## Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:.

| Component                               | CAS-No   | Weight % |
|---|----------|----------|
| Diethylene glycol diethyl ether         | 112-36-7 | 30 - 60  |
| Ethylene glycol monobutyl ether acetate | 112-07-2 | 5 - 10   |
| Triethylene glycol monobutyl ether      | 143-22-6 | 1 - 5    |

# U.S. State Regulations

| Component | New Jersey |
|-----------|------------|
|           |            |

Right To Know

Diethylene glycol diethyl ether

112-36-7

Ethylene glycol monobutyl ether acetate

112-07-2

Triethylene glycol monobutyl ether

143-22-6

|  | Pennsylvania<br>Right To Know |
|--|-------------------------------|
| Diethylene glycol diethyl ether 112-36-7         | X                             |
| Ethylene glycol monobutyl ether acetate 112-07-2 | x                             |
| Triethylene glycol monobutyl ether 143-22-6      | X                             |

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects

#### Canada

| Component                               | NPRI - National Pollutant Release Inventory         |
|---|---|
| Diethylene glycol diethyl ether         | Part 4 Substance                                    |
| 112-36-7                                |   |
| Butyrolactone                           | Part 4 Substance                                    |
| 96-48-0                                 |   |
| Ethylene glycol monobutyl ether acetate | Part 5, Other Groups and Mixtures; Part 4 Substance |
| 112-07-2                                | ·   |

| 16. OTHER INFORMATION |               |                   |                 |                     |
|-----------------------|---------------|-------------------|-----------------|---------------------|
| HMIS:                 | Health<br>3 * | Flammability<br>2 | Reactivity<br>0 | Personal Protection |

#### Key or legend to abbreviations and acronyms used in the safety data sheet

## Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average)
STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

# ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated to be a Human Carcinogen
OSHA: (Occupational Safety & Health Administration)

X - Present

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#### Pursuant to NOM-018-STPS-2015

This information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.

### **Disclaimer**

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

**End of Safety Data Sheet**