



## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M (TM) Piezo Inkjet Ink 4496 Cyan

#### Product Identification Numbers

75-3471-8828-8

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Piezo Ink Jet Ink, Ink

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Commercial Solutions Division           |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Flammable Liquid: Category 4.

Acute Toxicity (inhalation): Category 4.

Specific Target Organ Toxicity (repeated exposure): Category 2.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark | Health Hazard |

##### Pictograms



#### Hazard Statements

Combustible liquid.

Harmful if inhaled.

May cause damage to organs through prolonged or repeated exposure:  
blood or blood-forming organs |

#### Precautionary Statements

##### Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

##### Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Get medical advice/attention if you feel unwell.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

##### Storage:

Store in a well-ventilated place. Keep cool.

##### Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

#### 2.3. Hazards not otherwise classified

None.

10% of the mixture consists of ingredients of unknown acute oral toxicity.

10% of the mixture consists of ingredients of unknown acute dermal toxicity.

10% of the mixture consists of ingredients of unknown acute inhalation toxicity.

### SECTION 3: Composition/information on ingredients

| Ingredient                 | C.A.S. No.    | % by Wt                |
|----------------------------|---------------|------------------------|
| 2-BUTOXYETHYL ACETATE      | 112-07-2      | 60 - 70 Trade Secret * |
| 1-METHOXY-2-PROPYL ACETATE | 108-65-6      | 15 - 25 Trade Secret * |
| VINYL COPOLYMER            | Trade Secret* | 1 - 10 Trade Secret *  |
| PIGMENT                    | Trade Secret* | 1 - 10 Trade Secret *  |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**

Wash with soap and water. If you feel unwell, get medical attention.

**Eye Contact:**

No need for first aid is anticipated.

**If Swallowed:**

Rinse mouth. If you feel unwell, get medical attention.

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

See Section 11.1. Information on toxicological effects.

#### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

#### Hazardous Decomposition or By-Products

Substance

Carbon monoxide

Carbon dioxide

Hydrogen Chloride

Condition

During Combustion

During Combustion

During Combustion

#### 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

#### 6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent

material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial or professional use only. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Protect from sunlight. Store away from heat. Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient                 | C.A.S. No. | Agency | Limit type                            | Additional Comments          |
|----------------------------|------------|--------|---------------------------------------|------------------------------|
| 1-METHOXY-2-PROPYL ACETATE | 108-65-6   | AIHA   | TWA:50 ppm                            |                              |
| 1-METHOXY-2-PROPYL ACETATE | 108-65-6   | CMRG   | TWA:10 mg/m <sup>3</sup> ;STEL:90 ppm |                              |
| 2-BUTOXYETHYL ACETATE      | 112-07-2   | ACGIH  | TWA:20 ppm                            | A3: Confirmed animal carcin. |
| 2-BUTOXYETHYL ACETATE      | 112-07-2   | CMRG   | TWA:25 ppm                            | Skin Notation                |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

None required.

##### Skin/hand protection

No chemical protective gloves are required.

##### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |  |
|--|--|
| <b>General Physical Form:</b>                  | Liquid                                     |
| <b>Specific Physical Form:</b>                 | Liquid                                     |
| <b>Odor, Color, Grade:</b>                     | Solvent Odor, Cyan Color                   |
| <b>Odor threshold</b>                          | <i>No Data Available</i>                   |
| <b>pH</b>                                      | <i>Not Applicable</i>                      |
| <b>Melting point</b>                           | <i>Not Applicable</i>                      |
| <b>Boiling Point</b>                           | 146 °C                                     |
| <b>Flash Point</b>                             | >=149 °F [ <i>Test Method:</i> Closed Cup] |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>                   |
| <b>Flammability (solid, gas)</b>               | Not Applicable                             |
| <b>Flammable Limits(LEL)</b>                   | 1.5 % volume                               |
| <b>Flammable Limits(UEL)</b>                   | 10.8 % volume                              |
| <b>Vapor Pressure</b>                          | 2.5 mmHg [@ 20 °C]                         |
| <b>Density</b>                                 | 0.92 g/ml                                  |
| <b>Specific Gravity</b>                        | 0.92 [ <i>Ref Std:</i> WATER=1]            |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>                   |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>                   |
| <b>Autoignition temperature</b>                | > 788 °F                                   |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>                   |
| <b>Viscosity</b>                               | <i>No Data Available</i>                   |
| <b>Volatile Organic Compounds</b>              | <=898 g/l                                  |
| <b>Percent volatile</b>                        | 90 - 100                                   |
| <b>VOC Less H2O &amp; Exempt Solvents</b>      | <=898 g/l                                  |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Light  
Heat  
Sparks and/or flames

### 10.5. Incompatible materials

None known.

**10.6. Hazardous decomposition products****Substance**

None known.

**Condition**

Refer to section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

**11.1. Information on Toxicological effects****Signs and Symptoms of Exposure**

Based on test data and/or information on the components, this material may produce the following health effects:

**Inhalation:**

Harmful if inhaled.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

**Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation.

**Eye Contact:**

Contact with the eyes during product use is not expected to result in significant irritation.

**Ingestion:**

May be harmful if swallowed.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Additional Health Effects:****Prolonged or repeated exposure may cause target organ effects:**

Blood Effects: Signs/symptoms may include generalized weakness and fatigue, skin pallor, changes in blood clotting time, internal bleeding, and/or hemoglobinemia.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name                  | Route                  | Species  | Value   |
|-----------------------|------------------------|----------|---|
| Overall product       | Dermal                 |          | No data available; calculated ATE > 5,000 mg/kg       |
| Overall product       | Inhalation-Vapor(4 hr) |          | No data available; calculated ATE 10 - 20 mg/l        |
| Overall product       | Ingestion              |          | No data available; calculated ATE 2,000 - 5,000 mg/kg |
| 2-BUTOXYETHYL ACETATE | Inhalation-            | official | LC50 estimated to be 10 - 20 mg/l                     |

|                            |                            |                |                    |
|----------------------------|----------------------------|----------------|--------------------|
|                            | Vapor                      | classification |                    |
| 2-BUTOXYETHYL ACETATE      | Dermal                     | Rabbit         | LD50 > 4,766 mg/kg |
| 2-BUTOXYETHYL ACETATE      | Ingestion                  | Rat            | LD50 2,400 mg/kg   |
| 1-METHOXY-2-PROPYL ACETATE | Dermal                     | Rabbit         | LD50 > 5,000 mg/kg |
| 1-METHOXY-2-PROPYL ACETATE | Inhalation-Vapor (4 hours) | Rat            | LC50 > 28.8 mg/l   |
| 1-METHOXY-2-PROPYL ACETATE | Ingestion                  | Rat            | LD50 8,532 mg/kg   |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                       | Species | Value                     |
|----------------------------|---------|---------------------------|
| 2-BUTOXYETHYL ACETATE      | Rabbit  | Minimal irritation        |
| 1-METHOXY-2-PROPYL ACETATE | Rabbit  | No significant irritation |

### Serious Eye Damage/Irritation

| Name                       | Species | Value         |
|----------------------------|---------|---------------|
| 2-BUTOXYETHYL ACETATE      | Rabbit  | Mild irritant |
| 1-METHOXY-2-PROPYL ACETATE | Rabbit  | Mild irritant |

### Skin Sensitization

| Name                       | Species    | Value           |
|----------------------------|------------|-----------------|
| 1-METHOXY-2-PROPYL ACETATE | Guinea pig | Not sensitizing |

### Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Germ Cell Mutagenicity

| Name                       | Route    | Value         |
|----------------------------|----------|---------------|
| 1-METHOXY-2-PROPYL ACETATE | In Vitro | Not mutagenic |

### Carcinogenicity

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name                       | Route      | Value                            | Species                 | Test Result           | Exposure Duration              |
|----------------------------|------------|----------------------------------|-------------------------|-----------------------|--------------------------------|
| 2-BUTOXYETHYL ACETATE      | Dermal     | Not toxic to female reproduction | Rabbit                  | NOAEL 10,000 mg/kg    | 24 hours                       |
| 2-BUTOXYETHYL ACETATE      | Ingestion  | Not toxic to female reproduction | Rat                     | NOAEL 3,000 mg/kg     | not applicable                 |
| 2-BUTOXYETHYL ACETATE      | Inhalation | Not toxic to female reproduction | Multiple animal species | NOAEL 0.7 mg/l        | 10 months                      |
| 2-BUTOXYETHYL ACETATE      | Dermal     | Not toxic to male reproduction   | Rabbit                  | NOAEL 10,000 mg/kg    | 24 hours                       |
| 2-BUTOXYETHYL ACETATE      | Ingestion  | Not toxic to male reproduction   | Rat                     | NOAEL 3,000 mg/kg     | not applicable                 |
| 2-BUTOXYETHYL ACETATE      | Inhalation | Not toxic to male reproduction   | Multiple animal species | NOAEL 0.7 mg/l        | 10 months                      |
| 1-METHOXY-2-PROPYL ACETATE | Ingestion  | Not toxic to female reproduction | Rat                     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 1-METHOXY-2-PROPYL ACETATE | Ingestion  | Not toxic to male reproduction   | Rat                     | NOAEL 1,000           | prematuring & during           |

|                            |            |                          |     |                       |                              |
|----------------------------|------------|--------------------------|-----|-----------------------|------------------------------|
|                            |            |                          |     | mg/kg/day             | gestation                    |
| 1-METHOXY-2-PROPYL ACETATE | Ingestion  | Not toxic to development | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |
| 1-METHOXY-2-PROPYL ACETATE | Inhalation | Not toxic to development | Rat | NOAEL 21.6 mg/l       | during organogenesis         |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name                       | Route      | Target Organ(s)   | Value  | Species                 | Test Result         | Exposure Duration |
|----------------------------|------------|---|--|-------------------------|---------------------|-------------------|
| 2-BUTOXYETHYL ACETATE      | Dermal     | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rabbit                  | NOAEL Not available | 24 hours          |
| 2-BUTOXYETHYL ACETATE      | Dermal     | blood   | Some positive data exist, but the data are not sufficient for classification | Rabbit                  | LOAEL 3,191 mg/kg   | 24 hours          |
| 2-BUTOXYETHYL ACETATE      | Dermal     | heart   endocrine system   hematopoietic system   liver   nervous system  | All data are negative  | Rabbit                  | NOAEL 10,000 mg/kg  | 24 hours          |
| 2-BUTOXYETHYL ACETATE      | Inhalation | central nervous system depression   | Some positive data exist, but the data are not sufficient for classification | similar compounds       | NOAEL Not available |                   |
| 2-BUTOXYETHYL ACETATE      | Inhalation | blood   | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 2.6 mg/l      | 4 hours           |
| 2-BUTOXYETHYL ACETATE      | Inhalation | heart   endocrine system   hematopoietic system   liver   nervous system   kidney and/or bladder   respiratory system | All data are negative  | Multiple animal species | NOAEL 2.6 mg/l      | 4 hours           |
| 2-BUTOXYETHYL ACETATE      | Ingestion  | blood   | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 2,400 mg/kg   | not applicable    |
| 2-BUTOXYETHYL ACETATE      | Ingestion  | hematopoietic system  | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 2,400 mg/kg   | not applicable    |
| 2-BUTOXYETHYL ACETATE      | Ingestion  | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 2,400 mg/kg   | not applicable    |
| 2-BUTOXYETHYL ACETATE      | Ingestion  | heart   liver   nervous system  | All data are negative  | Rat                     | NOAEL 3,000 mg/kg   | not applicable    |
| 1-METHOXY-2-PROPYL ACETATE | Inhalation | respiratory irritation  | Some positive data exist, but the data are not sufficient for classification |                         | NOAEL Not available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                  | Route      | Target Organ(s)  | Value  | Species                 | Test Result    | Exposure Duration |
|-----------------------|------------|--|--|-------------------------|----------------|-------------------|
| 2-BUTOXYETHYL ACETATE | Inhalation | blood  | May cause damage to organs though prolonged or repeated exposure             | Multiple animal species | NOAEL 0.7 mg/l | 10 months         |
| 2-BUTOXYETHYL ACETATE | Inhalation | kidney and/or bladder  | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | LOAEL 0.7 mg/l | 10 months         |
| 2-BUTOXYETHYL ACETATE | Inhalation | heart   endocrine system   hematopoietic system   liver   nervous system | All data are negative  | Multiple animal species | NOAEL 0.7 mg/l | 10 months         |



|                            |            |                       |  |                         |                       |         |
|----------------------------|------------|-----------------------|--|-------------------------|-----------------------|---------|
|                            |            | respiratory system    |  |                         |                       |         |
| 1-METHOXY-2-PROPYL ACETATE | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 16.2 mg/l       | 9 days  |
| 1-METHOXY-2-PROPYL ACETATE | Inhalation | olfactory system      | Some positive data exist, but the data are not sufficient for classification | Mouse                   | LOAEL 1.62 mg/l       | 9 days  |
| 1-METHOXY-2-PROPYL ACETATE | Inhalation | blood                 | All data are negative  | Multiple animal species | NOAEL 16.2 mg/l       | 9 days  |
| 1-METHOXY-2-PROPYL ACETATE | Ingestion  | endocrine system      | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 1,000 mg/kg/day | 44 days |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information****Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

**SECTION 13: Disposal considerations****13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

**EPA Hazardous Waste Number (RCRA):** D001 (Ignitable)

**SECTION 14: Transport Information**

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information****15.1. US Federal Regulations**

Contact 3M for more information.

**311/312 Hazard Categories:**

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

**Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):**

| <u>Ingredient</u>                     | <u>C.A.S. No</u> | <u>% by Wt</u> |
|---------------------------------------|------------------|----------------|
| 2-BUTOXYETHYL ACETATE (GLYCOL ETHERS) | 112-07-2         | 60 - 70        |

**15.2. State Regulations**

Contact 3M for more information.

**15.3. Chemical Inventories**

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

**15.4. International Regulations**

Contact 3M for more information.

**This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.****SECTION 16: Other information****NFPA Hazard Classification****Health: 1 Flammability: 2 Instability: 0 Special Hazards: None**

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

|                        |           |                         |          |
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