

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

Product name	: P-Ink Midnight Black
Synonyms	: Product Code : A15975, A17787, IJ-P-BK2-G5, IJ-P-BK2-G5-D, IJ-P-BK2-G50, IJ-P-BK2-Q, 20734, 20743, 20838, 20831, 20943, 27535, 28378, Unicorn - Midnight Black, Porous Ink - Midnight Black
Material uses	: Industrial applications: Ink for use on porous surfaces in a drop-on-demand printing process.
Emergency phone	: Medical: CALL RMPDC, USA (303) 623-5716 Transporters: CALL CHEMTREC, USA (800)-424-9300
Manufacturer	: Videojet Technologies Inc., 1500 Mittel Boulevard, Wood Dale, IL, 60191-1073 U.S.A Phone: 1-800-843-3610 Fax: 1-800-582-1343 Videojet Technologies Europe BV., Strijkviertel 39, 3454 PJ De Meern, The Netherlands. Phone: 31-030-6693000 Fax: 31-030-6693060

2. COMPOSITION / INFORMATION ON INGREDIENTS

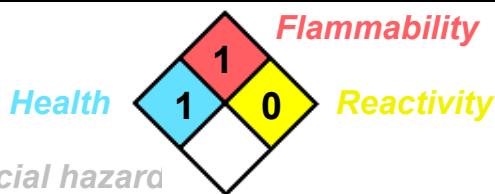
Information on hazardous ingredients

	<u>CAS No.</u>	<u>Percent (%)</u>	<u>Chemical name</u>
1)	112-34-5	7 - 13	Ethanol, 2-(2-butoxyethoxy)-

* Occupational Exposure Limit(s), if available, are listed in section 8

3. HAZARDS IDENTIFICATION

National Fire Protection Association (U.S.A.) :



Emergency Overview : CAUTION! EYE AND SKIN IRRITANT: Avoid contact with eyes and skin. May be harmful or fatal if swallowed. If inhaled remove to fresh air. If splashed in eyes flush with water. If contacts skin flush with water and wash with mild soap. In medical emergency call Poison Control Center (USA 1-303-623-5716) and a physician. Read MSDS before using.

Effects and symptoms

<u>Chemical name</u>	<u>Effects and symptoms</u>
1) Ethanol, 2-(2-butoxyethoxy)-	Inhalation not likely under normal use conditions. Irritating to eyes and skin. Absorbed through skin. Harmful if swallowed. May cause headache, weakness, dizziness, shortness of breath, cyanosis, rapid heart beat, unconsciousness, and possible death. Large quantity ingested and/or inhaled. may cause kidney abnormalities .

4. FIRST AID MEASURES

Inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Skin contact	: Wash with soap and water. Get medical attention if irritation develops. Cold water may be used.
Eye contact	: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media	: Not applicable.
Special fire-fighting procedures	: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Hazardous thermal decomposition products	: Not applicable.
Protection of fire-fighters	: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	: Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Environmental precautions and clean-up methods	: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. HANDLING AND STORAGE

Handling	: Keep container dry. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.
Storage	: Keep container tightly closed. Keep container in a cool, well-ventilated area.
Packaging materials	: Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
Hygiene measures	: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Occupational Exposure Limits

<u>Chemical name</u>	<u>Exposure limits</u>
1) Ethanol, 2-(2-butoxyethoxy)-	No established limits.

Personal Protective Equipment

Respiratory system	: Wear appropriate respirator when ventilation is inadequate.
Skin and body	: Lab coat.
Hands	: Gloves.
Eyes	: Splash goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	: Liquid.
Color	: Black.
Boiling point	: The lowest known value is 99 °C. Weighted average: 110 °C.
Melting point	: May start to solidify at 0 °C. Weighted average: -5 °C.
Specific gravity	: 1.01 (Water = 1)
Vapor density	: The highest known value is 5.6. The lowest known value is 0.6. (Air = 1)
Vapor pressure	: The highest known value is 18 mmHg at 20°C. Weighted average: 16 mmHg at 20°C.
Evaporation rate (butyl acetate = 1)	: The highest known value is 0.4. Weighted average: 0.3.
Solubility	: Easily soluble in cold water, hot water, methanol, acetone. Soluble in diethyl ether, n-octanol.
Octanol/water partition coefficient	: The product is more soluble in water.
pH	: 8.6 [Basic.]
Flash point	: >100 °C.
Autoignition temperature	: The lowest known value is 204 °C. Weighted average: 204 °C.
Flammable limits	: The lowest known value is 1.0%. The highest known value is 25.0%.
Volatility (w/w)	: 96 %.

VOC Volatility (w/w) - less : 8 %.
exempt volatile.

10. STABILITY AND REACTIVITY

Stability : The product is stable.
Conditions and materials to avoid : Not available.
Hazardous reactions : Slightly reactive to reactive with oxidizing agents, reducing agents.
Hazardous decomposition products : Not applicable.

11. TOXICOLOGICAL INFORMATION

<u>Chemical name</u>	<u>Toxicological Information</u>
1) Ethanol, 2-(2-butoxyethoxy)-	1) LD50 Oral Rat: 5660 mg/kg 2) LD50 Oral Rabbit: 2200 mg/kg 3) LD50 Oral Mouse: 2400 mg/kg 4) LD50 Dermal Rabbit: 2700 mg/kg

12. ECOLOGICAL INFORMATION

Persistence/degradability : Not available.
Ecotoxicity : Not available.
California, VOC Content : 738 grams volatile organic / liter less water or exempt volatile.

13. DISPOSAL CONSIDERATIONS

Disposal methods : Waste must be disposed of in accordance with federal, state and local environmental control regulations.
RCRA waste code : Not available.

14. TRANSPORT INFORMATION

UN number : Not available.
Proper shipping name : Not regulated.

15. REGULATORY INFORMATION

CERCLA : The following product(s) is (are) listed by CERCLA: Ethanol, 2-(2-butoxyethoxy)- (7 - 13%)
SARA 313 : The following product(s) is (are) listed on SARA 313: Ethanol, 2-(2-butoxyethoxy)- (7 - 13%)
California prop. 65 : This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: None.

16. OTHER INFORMATION

Date of issue : May 28, 2002
Prepared by : Garth Studebaker, CSP
Version : 4

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.