



## 1. PRODUCT IDENTIFICATION

PRODUCT NAME: 100 Black Ink  
 PRODUCT COLOR: Black  
 RECOMMENDED USE: Coding & Marking

**Manufacturer/Supplier:**

Pannier Corporation  
 207 Sandusky Street  
 Pittsburgh, PA 15212-5823  
 412-323-4900  
 Sales@pannier.com

**Emergency Telephone Number: 1-800-535-5053 (North America)**

TRANSPORTATION: INFOTRAC:

## 2. HAZARDS IDENTIFICATION

**Emergency Overview:**

**GHS Classification:**

|                                                  |            |
|--------------------------------------------------|------------|
| Flammable liquids                                | Category 3 |
| Acute toxicity - Oral                            | Category 4 |
| Skin corrosion/irritation                        | Category 2 |
| Serious eye damage/eye irritation                | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |

**GHS label elements, including precautionary statements**



Pictogram

Signal Word **Danger**

Hazard Statements

|      |                                   |
|------|-----------------------------------|
| H226 | Flammable liquid and vapor        |
| H302 | Harmful if swallowed              |
| H315 | Causes skin irritation            |
| H318 | Causes serious eye damage         |
| H335 | May cause respiratory irritation  |
| H336 | May cause drowsiness or dizziness |

**Precautionary Statements**

|                |                                                                                                                                    |
|----------------|------------------------------------------------------------------------------------------------------------------------------------|
| P210           | Keep away from heat/sparks/open flames/hot surfaces. - No smoking                                                                  |
| P233           | Keep container tightly closed                                                                                                      |
| P242           | Use only non-sparking tools                                                                                                        |
| P243           | Take precautionary measures against static discharge                                                                               |
| P261           | Avoid breathing dust/fume/gas/mist/vapors/spray                                                                                    |
| P264           | Wash skin thoroughly after handling                                                                                                |
| P270           | Do not eat, drink or smoke when using this product                                                                                 |
| P271           | Use only outdoors or in a well-ventilated area                                                                                     |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection                                                          |
| P301+P312      | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell                                                          |
| P302+P352      | IF ON SKIN: Wash with plenty of soap and water                                                                                     |
| P303+P361+P351 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.<br>Rinse continuously with water for several minutes. |
| P304+P340      | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing                                    |
| P305+P351+P338 | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  |
| P308+P313      | IF exposed or concerned: Get medical advice/attention.                                                                             |
| P310           | Immediately call a POISON CENTER or doctor/physician                                                                               |
| P330           | Rinse mouth                                                                                                                        |
| P332+P313      | If skin irritation occurs: Get medical advice/attention                                                                            |
| P370+P378      | In case of fire: Use Water spray, CO2, dry chemical, or alcohol resistant foam to extinguish                                       |
| P362+P364      | Take off contaminated clothing and wash it before reuse                                                                            |
| P403+P235      | Store in a well-ventilated place. Keep cool                                                                                        |
| P501           | Dispose of contents/container to an approved waste disposal plant                                                                  |

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

| Chemical Name        | CAS No   | Weight-% |
|----------------------|----------|----------|
| n-Butyl Alcohol      | 71-36-3  | 20-40    |
| 1-Methoxy-2-propanol | 107-98-2 | 10-20    |
| Ethyl Alcohol        | 64-17-5  | 5-25     |
| 2-Propanol           | 67-63-0  | 2-15     |
| Propyl Acetate       | 109-60-4 | 0-5      |

**4. FIRST AID MEASURES****First Aid Measures**

|                    |                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ingestion:</b>  | If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
| <b>Eyes:</b>       | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.                                                    |
| <b>Skin:</b>       | Remove contaminated clothing. Wash off with soap and plenty of water. Consult a physician.                                                |
| <b>Inhalation:</b> | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.                           |

**Most important symptoms and effects**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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

|                           |                       |
|---------------------------|-----------------------|
| <b>Notes to Physician</b> | Treat symptomatically |
|---------------------------|-----------------------|

**5. FIREFIGHTING MEASURES****Suitable extinguishing media:**

Water fog, Multipurpose foam, Dry chemical, CO<sub>2</sub>

**Unsuitable extinguishing media:**

Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards in case of fire:**

Fight as volatile liquid fire  
Flashback fires may occur  
Vapors are dense and may travel to remote ignition source

**Hazardous combustion products:**

Carbon oxides, Nitrogen oxides, organic combustion products which may be toxic and/or irritating

**Protective equipment and precautions for fire fighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions:**

Wear chemical goggles, gloves, boots and protective clothing. Wear respirator if necessary. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition and heat.

**Environmental precaution:**

Prevent additional discharge of material. Prevent material from entering sewers or water courses.

**Methods and materials for containment and cleaning up:**

Absorb small spills with sand, filter-aid, vermiculite or other inert absorbent material, then place in a chemical waste container. For large spills, contain with sand or earth dikes. Dispose of waste in accordance with applicable government regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling:

Avoid contact with eyes. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing and eye/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Unscrew all caps slowly. Do not unscrew entirely until all pressure has been completely released. Keep away from heat/sparks/open flames/hot surfaces. Emptied containers may retain residues. Precautions apply to emptied containers.

### Conditions for safe storage, including incompatibilities:

Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep storage temperature between 4-32°C (40-90°F). Incompatible with strong oxidizing agents, strong acids, strong bases, alkali metals and halogens.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Guidelines:

| Chemical Name and CAS#           | ACGIH TLV                                                                                   | OSHA PEL                                                                                    | NIOSH IDLH                                                                                                    |
|----------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| n-Butyl Alcohol<br>71-36-3       | TWA: 20 ppm                                                                                 | TWA: 100 ppm<br>TWA: 300 mg/m <sup>3</sup>                                                  | IDLH: 1400 ppm<br>Ceiling: 50 ppm<br>Ceiling: 150 mg/m <sup>3</sup><br>skin                                   |
| 1-Methoxy-2-propanol<br>107-98-2 | STEL: 150 ppm<br>TWA: 100 ppm                                                               | TWA: 100 ppm<br>TWA: 360 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 540 mg/m <sup>3</sup>  | TWA: 100 ppm<br>TWA: 360 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 540 mg/m <sup>3</sup>                    |
| Ethyl Alcohol<br>64-17-5         | TWA: 1000 ppm                                                                               | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>                                                | IDLH: 3300 ppm<br>TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>                                                |
| 2-Propanol<br>67-63-0            | STEL: 400 ppm<br>TWA: 200 ppm                                                               | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> |
| Propyl Acetate<br>109-60-4       | TWA: 200 ppm<br>TWA: 840 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 1025 mg/m <sup>3</sup> | TWA: 200 ppm<br>TWA: 840 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 1050 mg/m <sup>3</sup> | IDLH: 1700 ppm<br>TWA: 200 ppm<br>TWA: 840 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 1050 mg/m <sup>3</sup> |

### Appropriate engineering controls

Apply technical measures to comply with the occupational exposure limits. Local exhaust and mechanical ventilations are recommended to be used as engineering controls.

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

**Eye/Face protection:** Safety glasses with side shields or chemical goggles must be worn.

**Skin/Body protection:** Wear protective gloves. Wear suitable protective clothing and footwear appropriate for the risk of exposure.

**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.

**General hygiene:** Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

| <u>Property</u>                         | <u>Values</u>     | <u>Remarks-Methods</u> |
|-----------------------------------------|-------------------|------------------------|
| <b>Physical state:</b>                  | Liquid            |                        |
| <b>Odor:</b>                            | Moderate          |                        |
| <b>Odor threshold:</b>                  | Not determined    |                        |
| <b>pH:</b>                              | Not determined    |                        |
| <b>Melting point/freezing point:</b>    | Not determined    |                        |
| <b>Boiling point/Boiling range:</b>     | Not determined    |                        |
| <b>Flash point:</b>                     | 23.3°C / 74°F     | Tag Closed Cup         |
| <b>Evaporation Rate:</b>                | <1                | butyl acetate = 1      |
| <b>Flammability (solid, gas):</b>       | Not determined    |                        |
| <b>Upper/lower flammability limits:</b> | Not determined    |                        |
| <b>Vapor pressure:</b>                  | Not determined    |                        |
| <b>Vapor density:</b>                   | >1                | air = 1                |
| <b>Specific gravity:</b>                | 0.9 - 0.98        | water = 1              |
| <b>Water solubility:</b>                | Partially soluble |                        |
| <b>Solubility in other solvents:</b>    | Not determined    |                        |
| <b>Partition Coefficient:</b>           | Not determined    |                        |
| <b>Auto-ignition Temperature:</b>       | Not determined    |                        |
| <b>Decomposition temperature:</b>       | Not determined    |                        |
| <b>Viscosity:</b>                       | 8-20 cps          |                        |
| <b>VOC Content (%):</b>                 | 90%               |                        |
| <b>VOC Content:</b>                     | 6.7 – 7.3 lbs/gal |                        |

**10. STABILITY AND REACTIVITY**

**Reactivity:**  
Not reactive under normal conditions.

**Chemical Stability:**  
Stable under recommended storage conditions.

**Possibility of hazardous reactions:**  
None under normal processing.

**Conditions to avoid:**  
Keep out of reach of children. Keep away from heat, sparks and open flame. Keep away from contact with incompatible materials.

**Incompatible materials:**  
Strong oxidizing agents, strong acids, strong bases, alkali metals, halogens

**Hazardous decomposition products:**  
Carbon oxides, nitrogen oxides, thermal decomposition can lead to release of irritating and toxic gases and vapors.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

- Eye contact:** Causes serious eye damage
- Skin contact:** Causes skin irritation
- Inhalation:** May cause respiratory irritation. May cause drowsiness or dizziness.
- Ingestion:** Harmful if swallowed

**Component Information:**

| Chemical Name and CAS#           | Oral LD50           | Dermal LD50             | Inhalation LC50                       |
|----------------------------------|---------------------|-------------------------|---------------------------------------|
| n-Butyl Alcohol<br>71-36-3       | = 790 mg/kg (Rat)   | = 5,620 mg/kg (Rabbit)  | >17.9 mg/l (Rat) 4 h                  |
| 1-Methoxy-2-propanol<br>107-98-2 | = 4,016 mg/kg (Rat) | >2,000 mg/kg (Rabbit)   | = 25.8 mg/l (Rat) 5h                  |
| Ethyl Alcohol<br>64-17-5         | = 2,000 mg/kg (Rat) | >2,000 mg/l (Rabbit)    | >20 mg/l (Mouse) 4h                   |
| 2-Propanol<br>67-63-0            | = 5,045 mg/kg (Rat) | = 12,800 mg/kg (Rabbit) | = 16,000 mg/ m <sup>3</sup> (Rat) 8 h |
| Propyl Acetate<br>109-60-4       | = 9,370 mg/kg (Rat) | = 17,740 mg/kg (Rabbit) | No data available                     |

**Information on physical, chemical and toxicological effects:**

**Symptoms** Please see section 4 of this SDS for symptoms

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

**Carcinogenicity:**

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---------------|-------|------|-----|------|
| None          |       |      |     |      |
|               |       |      |     |      |

**Legend**

- ACGIH (American Conference of Governmental Industrial Hygienists)**
- A1 – Confirmed human carcinogen
- A2 – Suspected human carcinogen
- A3 - Confirmed animal carcinogen with unknown relevance to humans
- IARC (International Agency for Research on Cancer)**
- Group 1 - Carcinogenic to Humans
- Group 2A – Probably Carcinogenic to Humans
- Group 2B – Limited evidence of carcinogenicity
- NTP (National Toxicology Program)**
- Known - Known Carcinogen
- OSHA (Occupational Safety and Health Administration of the US Department of Labor)**
- X - Present

**Numerical measures of toxicity:**

Not determined

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:**

**Component Information**

| Chemical Name and CAS#           | Algae/aquatic plants                                           | Fish                                                | Toxicity to microorganisms | Crustacea                                   |
|----------------------------------|----------------------------------------------------------------|-----------------------------------------------------|----------------------------|---------------------------------------------|
| n-Butyl Alcohol<br>71-36-3       | No data                                                        | LC50 - Pimephales promelas<br>- 1,376 mg/L - 96 h   | No data                    | EC50 - Daphnia magna -<br>1,328 mg/L - 48 h |
| 1-Methoxy-2-propanol<br>107-98-2 | No data                                                        | LC50 - Pimephales promelas<br>- 20,800 mg/L - 96h   | No data                    | EC50 - Daphnia magna -<br>23,300 mg/L - 48h |
| Ethyl Alcohol<br>64-17-5         | EC50 - Chlorella vulgaris -<br>>100 mg/L - 72h                 | LC50 - Pimephales promelas<br>- 15,300 mg/L - 96h   | No data                    | EC50 - Daphnia magna - ><br>100 mg/L - 24h  |
| 2-Propanol<br>67-63-0            | EC50 - Desmodemus<br>subspicatus - 2000 mg/L -<br>72h          | LC50 - Pimephales promelas<br>- 9,640 mg/L - 96h    | No data                    | EC50 - Daphnia magna -<br>5,102 mg/L - 96h  |
| Propyl Acetate<br>109-60-4       | EC50 - Pseudokirchneriella<br>subcapitata - >100 mg/L -<br>72h | LC50 - Pimephales promelas<br>- > 10-100 mg/L - 96h | No data                    | EC50 - Daphnia magna -<br>318 mg/L - 24h    |

**Persistence/Degradability:**

Not determined

**Bioaccumulation:**

Not determined

**Mobility:**

Not determined

**Other Adverse Effects:**

No data available

**13. DISPOSAL CONSIDERATIONS****Disposal of Wastes:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging:**

Dispose of as unused product in accordance with applicable regional, national and local laws and regulations.

**SECTION 14 – TRANSPORTATION INFORMATION****DOT**

UN number 1210  
 Proper shipping name PRINTING INK  
 Hazard class 3  
 Packing group III  
 ERG# 129

**IATA**

UN number 1210  
 Proper shipping name PRINTING INK  
 Hazard class 3  
 Packing group III

**IMDG**

UN number 1210

**Proper shipping name** PRINTING INK  
**Hazard class** 3  
**Packing group** III  
**Marine pollutant** No

**SECTION 15 – REGULATORY INFORMATION**

TSCA STATUS: All Components listed

OTHER REGULATORY:

| <u>Ingredient(s)</u> | <u>SARA 302</u> | <u>SARA 311/312</u> | <u>SARA 313</u> | <u>RECRA</u> | <u>CERCLA</u> |
|----------------------|-----------------|---------------------|-----------------|--------------|---------------|
| n-Butyl Alcohol      | No              | F, A                | Yes             | U031         | No            |
| 1-Methoxy-2-propanol | No              | F, A                | No              | No           | No            |
| Ethyl Alcohol        | No              | F, A                | No              | No           | No            |
| 2-Propanol           | No              | F, A, C             | Yes             | No           | No            |
| Propyl Acetate       | No              | F, A                | No              | No           | No            |

SARA 311/312 Codes: R = Reactive Hazard  
 P = Pressure Hazard  
 F = Fire Hazard  
 A = Immediate/Acute  
 C = Delayed/Chronic

**California Prop. 65 Components:** Chemicals known to the state of California to cause birth defects or other reproductive harm:

This product does not contain any chemicals known to the state of California to cause cancer, birth defects or any other reproductive harm.

**SECTION 16 – OTHER INFORMATION**

HMIS:

Health: 2  
 Chronic Health Hazard \*  
 Flammability: 3  
 Reactivity: 0

**Revision Date:** 08-Nov-2021  
**Replaces:** 21-Sept-2018  
**Revision Note:** Review and update.

**Prepared by:** Don Wright

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