

## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

**PRODUCT IDENTIFIER**

Product Code                    **GP-1420**  
 Product Name                    **EMERALD GREEN**  
 Product Category                **GENERAL PURPOSE SERIES SCREEN INK (GP)**

**RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE**

Recommended Use                **PRINTING OPERATION**

**DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

Inktech International Corporation  
 160 Fenmar Drive,  
 Toronto, Ontario M9L 1M6  
 Tel: 1-416-743-4111  
 Fax: 1-416-743-1511

**EMERGENCY TELEPHONE NUMBER**

Chemtrec 1-613-996-6666

### SECTION 2. HAZARDS IDENTIFICATION

**CLASSIFICATION**

|                                |                      |
|--------------------------------|----------------------|
| Acute Toxicity - Oral          | Category 4 - (H302)  |
| Acute Toxicity - Dermal        | Category 4 - (H312)  |
| Acute Toxicity - Inhalation    | Category 4 - (H332)  |
| Skin Irritation                | Category 2 - (H315)  |
| Serious Eye Damage/ Irritation | Category 2 - (H319)  |
| Carcinogenicity                | Category 2 - (H351)  |
| Reproductive Toxicity          | Category 1A - (H360) |
| Specific Organ Toxicity        | Category 2 - (H373)  |

**LABEL ELEMENTS**



**SIGNAL WORD:     DANGER!**

**HAZARD STATEMENTS**

H302     Harmful if swallowed  
 H312     Harmful in contact with skin  
 H315     Causes skin irritation  
 H319     Causes serious eye irritation  
 H332     Harmful if inhaled  
 H351     Suspected of causing cancer  
 H360     May damage fertility or the unborn child  
 H373     May cause damage to organs through prolonged or repeated exposure

**PRECAUTIONARY STATEMENTS**

- P201 Obtain special instruction before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from heat/ sparks/open flames/ hot surfaces – No smoking.  
 P270 Do not eat, drink or some when using this product.  
 P280 Wear protective clothing.  
 P308 +P313 If exposed or concerned, get medical attention.  
 P331 Do not induce vomiting

**HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)**

May be harmful in contact with skin.

**SECTION 3. COMPOSITION/ INFORMATION ON INGREDIENTS****Mixture:**

| COMPONENTS                        | WEIGHT % | CAS NO     | NOTE |
|-----------------------------------|----------|------------|------|
| DIACETONE ALCOHOL                 | 30-60    | 123-42-2   |      |
| 2-BUTOXYETHANOL                   | 10-20    | 111-76-2   |      |
| PETROLEUM NAPHTHA, LIGHT AROMATIC | 5-15     | 64742-95-6 |      |
| PIGMENT YELLOW 34                 | 5-25     | 1344-37-2  |      |

**SECTION 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 flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.

**Skin Contact**

Wash immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation such as 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.

**Ingestion**

**Do Not** induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control immediately.

**MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

None under normal use conditions.

**INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT**

**Notes to Physician:** Treat symptomatically.

**SECTION 5. FIRE FIGHTING PROCEDURE****SUITABLE EXTINGUISHING MEDIA**

Foam, Dry chemical, and Water Spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**UNSUITABLE EXTINGUISHING MEDIA:**

Carbon Dioxide

**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.

**SECTION 6. ACCIDENTAL RELEASE MEASURE****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 upwind of spill/leak.

**Environmental Precautions**

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

**Methods and Material for Containment and Cleanup**

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.

**SECTION 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 reach of children.

**Incompatible Products**

Strong acids, strong bases, strong oxidizing and reducing agents.

**SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION****CONTROL PARAMETERS****Exposure Limits**

| Component                      | ACGIH TLV  | OSHA PEL  |
|--------------------------------|--|---|
| 2-Butoxyethanol<br>111-76-2    | TWA: 20 ppm  | TWA: 25 ppm<br>TWA: 120mg/m <sup>3</sup><br>TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>Skin |
| Diacetone Alcohol<br>123-42-2  | TWA: 50 ppm  | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup>   |
| Pigment Yellow 34<br>1344-37-2 | TWA: 0.05 mg.m <sup>3</sup> Lead<br>TWA: 0.012 mg/m <sup>3</sup> Chromium (VI) | TWA: 0.05 mg.m <sup>3</sup> Lead<br>TWA: 0.005 mg/m <sup>3</sup> Chromium (VI)                |

| Component                     | Ontario TWAEV  | Mexico OEL (TWA)   |
|-------------------------------|--|--|
| 2-Butoxyethanol<br>111-76-2   | TWA: 20 ppm  | TWA/LMPE-PPT: 26 ppm<br>TWA/LMPE-PPT: 120 mg/m <sup>3</sup><br>STEL/LMPE-CT: 75 ppm<br>STEL/LMPE-CT: 360 mg/m <sup>3</sup> |
| Diacetone Alcohol<br>123-42-2 | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>STEL: 75 ppm<br>STEL: 360 mg/m <sup>3</sup> | TWA/LMPE-PPT: 50 ppm<br>TWA/LMPE-PPT: 240 mg/m <sup>3</sup><br>STEL/LMPE-CT: 75 ppm<br>STEL/LMPE-CT: 360 mg/m <sup>3</sup> |

**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 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 goggle). If splashes are likely to occur, wear suitable face shield. Ensure the eye wash 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 contact.

**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 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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****Information on Basic Physical and Chemical Properties**

|   |                      |                                   |                          |
|---|----------------------|-----------------------------------|--------------------------|
| <b>Physical State</b>                   | Viscous Liquid       | <b>Appearance</b>                 | Colored Liquid           |
| <b>Odor</b>                             | Mild                 | <b>Odor Threshold</b>             | No information Available |
| <b><u>Property</u></b>                  | <b><u>Values</u></b> | <b><u>Remarks/ Method</u></b>     |                          |
| PH                                      |                      | No Data Available                 |                          |
| Melting Point/ Freezing Point           |                      | No Data Available                 |                          |
| Boiling Point/ Boiling Range            | > 145 °C/ 293 °F     |                                   |                          |
| Flash Point                             | 52 °C/ 126 °F        | Penskey Martens Closed Cup (PMCC) |                          |
| Evaporation Rate                        |                      | No Data Available                 |                          |
| Flammability Limit in Air               |                      |                                   |                          |
| Upper Flammability Limit (% vol)        |                      | 8.3 %                             |                          |
| Lower Flammability Limit (% vol)        |                      | 1.2 %                             |                          |
| Vapor Pressure                          |                      | No Data Available                 |                          |
| Vapor Density                           |                      | Heavier than air                  |                          |
| Specific Gravity                        | 0.98-1.3             |                                   |                          |
| Water Solubility                        |                      | No Data Available                 |                          |
| Solubility in Other Solvents            |                      | No Data Available                 |                          |
| Partition Coefficient: N-Octanol/ Water |                      | No Data Available                 |                          |
| Auto Ignition Temperature               |                      | No Data Available                 |                          |
| Decomposition Temperature               |                      | No Data Available                 |                          |
| Kinetic Viscosity                       |                      | No Data Available                 |                          |
| Dynamic Viscosity                       |                      | No Data Available                 |                          |
| Explosive Property                      |                      | No Data Available                 |                          |
| Oxidizing Property                      |                      | No Data Available                 |                          |

**SECTION 10. STABILITY AND REACTIVITY****Reactivity**

No information Available

**Chemical Stability**

Stable under normal condition

**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, reducing agent.

**Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors, Carbon Dioxide (CO<sub>2</sub>), Carbon Monoxide.



## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

None known

| Component                         | CAS No.    | Algae/Aquatic Plants   |
|-----------------------------------|------------|--|
| 2-Butoxyethanol                   | 111-76-2   | 72 h Pseudokirchneriella Subcapita: 911 mg/l   |
|                                   |            |  |
| Component                         | CAS No.    | Fish   |
| Petroleum Naphtha, light aromatic | 64742-95-6 | 96 h LC50 Oncorhynchus Mykiss: 9.22 mg/L   |
| 2-Butoxyethanol                   | 111-76-2   | 96 h LC50 Lepomis Macrochirus: 1490 mg/L (static)<br>96 h LC50 Lepomis Macrochirus: 2950mg/L |
| Diacetone Alcohol                 | 123-42-2   | 96 h LC50 Lepomis Macrochirus: 420 mg/L<br>96 h LC50 Lepomis Macrochirus: 420 mg/L (Static)  |
| Pigment Yellow 34                 | 1344-37-2  | 96 h LC50 Leuciscus Idus: 10000 mg/L   |

| Component         | CAS No.   | Crustacea  |
|-------------------|-----------|--|
| Diacetone Alcohol | 123-42-2  | 24 h EC50 Daphnia Magna: 8750 mg/L   |
| 2-Butoxyethanol   | 111-76-2  | 24 h EC50 Daphnia Magna: 1698-1940 mg/L<br>48 h EC50 Daphnia Magna: >1000 mg/L   |
| Pigment Yellow 34 | 1344-37-2 | 48 h EC50 Daphnia Magna: >100 mg/L<br>Base on review of lead (Pb): 300 ug/L Daphnia Magna (3 weeks)<br>Base on review of Hex. Chromium: 2000 ug/L Daphnia Magna (3wks)<br>30m EC50 Pseudomonas Putida: >10000 mg/L Pseudomonas Putida<br>72 h Desmodesmus Subspicatus: >100 ml/L |

### Persistence and Degradability

No information Available

### Bioaccumulation

No information Available

| Component         | CAS No.  | Partition Coefficient |
|-------------------|----------|-----------------------|
| Diacetone Alcohol | 123-42-2 | 1.03                  |
| 2-Butoxyethanol   | 111-76-2 | 0.81                  |

**Other Adverse Effects:** No information available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Waste Treatments 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.

## SECTION 14. TRANSPORT INFORMATION

### DOT

In Canada and US, this material may be reclassified as a combustible liquid and is not regulated, via Surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per Transportation of Dangerous Goods Regulations/ Clear Language Part 1.33]

UN/ ID No.                    UN 1210  
 Proper Shipping name:    Printing Ink  
 Hazard Class:                3  
 Packing Group:                III

### ICAO/ IATA/ IMDG/ IMO

UN/ ID No.                    UN 1210  
 Proper Shipping name:    Printing Ink  
 Hazard Class:                3  
 Packing Group:                III

|   |
|---|
| <b>SECTION 15. REGULATORY INFORMATION</b> |
|---|

**International Inventories**

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

**US Federal Regulations**

Pigment Yellow 34 CAS 1344-37-2

OSHA Regulatory Status: Chronic exposure may cause effects of chronic lead toxicity.

**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 Values |
|-----------------------------------|-----------|----------|---------------------------|
| 2-Butoxyethanol                   | 111-76-2  | 10-30    | 1.0                       |
| Chromium ( in Pigment Yellow 34)  | 7440-47-3 | 1-5      | 1.0                       |
| Aluminum ( in Piigment Yellow 34) | 7429-90-5 | < 1      | 1.0                       |
| Lead ( in Pigment Yellow 34)      | 7439-92-1 | 10-15    | 0.1                       |
| Antimony ( in Pigment Yellow 34)  | 7440-36-0 | < 1      | 1.0                       |

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPS) (see 40 CFR 61)**

This product does not contain air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

**U.S. State Regulations**

| Component                         | CAS NO.   | Massachusetts Right to Know |
|-----------------------------------|-----------|-----------------------------|
| 2-Butoxyethanol                   | 111-76-2  | x                           |
| Diacetone Alcohol                 | 123-42-2  | x                           |
| Chromium ( in Pigment Yellow 34)  | 7440-47-3 | x                           |
| Aluminum ( in Piigment Yellow 34) | 7429-90-5 | x                           |
| Lead ( in Pigment Yellow 34)      | 7439-92-1 | x                           |
| Antimony ( in Pigment Yellow 34)  | 7440-36-0 | x                           |

| Component                         | CAS NO.   | Minnesota Right to Know |
|-----------------------------------|-----------|-------------------------|
| 2-Butoxyethanol                   | 111-76-2  | x                       |
| Diacetone Alcohol                 | 123-42-2  | x                       |
| Chromium ( in Pigment Yellow 34)  | 7440-47-3 | x                       |
| Aluminum ( in Piigment Yellow 34) | 7429-90-5 | x                       |
| Lead ( in Pigment Yellow 34)      | 7439-92-1 | x                       |
| Antimony ( in Pigment Yellow 34)  | 7440-36-0 | x                       |

| Component                         | CAS NO.   | New Jersey Right to Know |
|-----------------------------------|-----------|--------------------------|
| 2-Butoxyethanol                   | 111-76-2  | x                        |
| Diacetone Alcohol                 | 123-42-2  | x                        |
| Chromium ( in Pigment Yellow 34)  | 7440-47-3 | x                        |
| Aluminum ( in Piigment Yellow 34) | 7429-90-5 | x                        |
| Lead ( in Pigment Yellow 34)      | 7439-92-1 | x                        |
| Antimony ( in Pigment Yellow 34)  | 7440-36-0 | x                        |

| Component                         | CAS NO.   | Pennsylvania Right to Know |
|-----------------------------------|-----------|----------------------------|
| 2-Butoxyethanol                   | 111-76-2  | x                          |
| Diacetone Alcohol                 | 123-42-2  | x                          |
| Chromium ( in Pigment Yellow 34)  | 7440-47-3 | x                          |
| Aluminum ( in Piigment Yellow 34) | 7429-90-5 | x                          |
| Lead ( in Pigment Yellow 34)      | 7439-92-1 | x                          |
| Antimony ( in Pigment Yellow 34)  | 7440-36-0 | x                          |

**California Prop. 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

|                             |                            |
|-----------------------------|----------------------------|
| <b>Component</b>            | <b>California Prop. 65</b> |
| Pigment Yellow 34 1344-37-2 | Carcinogen                 |

**Canada**

|   |  |
|---|--|
| <b>Component</b>                                | <b>NPRI – National Pollutant Release Inventory</b>   |
| Petroleum Naphtha, Light Aromatic<br>64742-95-6 | Part 5. Other Groups and Mixtures  |
| Diacetone Alcohol<br>123-42-2                   | Part 4. Substances as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act 1999  |
| 2 Butoxyethanol<br>111-76-2                     | Part 1. Group A substance, Part 5 Individual Substance, Part 4, Substances as set out in Section 65 of the List of Toxic Substance in Schedule 1 of the Canadian Environmental Protection Act 1999 |
| Pigment Yellow 34<br>1344-37-2                  | Part 1. Group B substance, Part 4, Substances as set out in Section 65 of the List of Toxic Substance in Schedule 1 of the Canadian Environmental Protection Act 1999                              |

**SECTION 16. OTHER INFORMATION**

|             |              |                   |                 |                          |
|-------------|--------------|-------------------|-----------------|--------------------------|
| <b>HMIS</b> | Health<br>2* | Flammability<br>2 | Reactivity<br>0 | Personal Protection<br>x |
|-------------|--------------|-------------------|-----------------|--------------------------|

**Key or legend to abbreviations and acronyms used in safety data sheet.****Legend – Section 8: Exposure Controls/Personal Protection**

TWA Time Weighted Average  
 STEL Short Term Average  
 Ceiling Maximum Limit Value

**ACGIH** American Conference of Governmental Industrial Hygienist  
 A1 Known Human Carcinogen  
 A2 Suspended 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 Human

**NTP** National Toxicity Program  
 Known Known Carcinogen  
 Reasonably Anticipated to be a Human Carcinogen

**OSHA** Occupational Health and Safety Administration  
 X Present

**Date** Jan. 24, 2019

**DISCLAIMER**

This 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 guide 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 SDS

---