

# MATERIAL SAFETY DATA SHEET

RYECO, INC.  
810 Pickens Drive Ext.  
Marietta, Georgia 30062  
Phone: 770-423-0934  
May 22, 2009

Ryeco Product Number: 12190  
Information Phone: 770-423-0934  
Emergency Phone: 404.433.4526  
404.229.9038

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

Product Name : UV Series Solvent Based Ink Jet Ink  
Pack Code : Ryeco Part # 12190  
Size : per gallon  
Supplier : Ryeco, Inc.  
810 Pickens Drive Ext.  
Marietta, Georgia 30062  
Phone: 770.423.0934  
Fax: 770.424.2554

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation: Preparation  
Information on Hazardous Ingredients\*

	<u>Wt. %</u>	<u>LD50</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OSHA STEL</u>
<b>Ethanol</b>	75-90	15g/kg	1000ppm	1000ppm	N/A
<b>Isopropanol</b>	<5	5840mg/kg	400ppm	400ppm	500ppm

### Common Name

Solvent Based Ink Jet Ink

## 3. HAZARDS IDENTIFICATION

HMIS Hazard Ratings: Health – 1, Flammability – 3, Chemical Reactivity – 0

NOTE: HMIS rating involve data and interpretations that may vary from company to company. These are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

## 4. FIRST-AID MEASURES

### Effects and symptoms

- Inhalation : Excessive inhalation of vapors can cause nasal and respiratory irritation.  
Ingestion : Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
Skin contact : Prolonged or repeated contact can cause minor skin irritation and discoloration due to pigment.  
Eye contact : Can cause irritation, redness, tearing and blurred vision.

### First-aid measures

- Inhalation : Remove to fresh air. If breathing is difficult, administer oxygen. If problems persist, seek medical attention.  
Ingestion : Keep person warm and seek medical advice on whether to induce vomiting.  
Skin contact : Remove contaminated clothing. Wash skin with soap and water.  
Eye Contact : Flush with large amounts of water for 15 minutes and seek medical attention.

## 5. FIRE-FIGHTING MEASURES

- Flash Point : 58° F (15° C)  
Flammable Limits : LEL: 3.4 UEL: 19  
Extinguishing media : Carbon dioxide, dry chemical, or alcohol foam.  
Special fire-fighting procedures : Wear a self-contained breathing apparatus and chemical resistant personal protection.  
Unusual fire/explosion hazards : Flammable, may ignite by spark or open flame.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Put on appropriate personal protective equipment (see Section 8).  
Environmental precautions : In the event of spillage: Isolate spill. Prevent run-off to sewers or other bodies of water. Absorb liquid with suitable absorbent material and place in containers for proper disposal. Dispose contaminated absorbent in accordance with local, state and federal regulations.  
And cleanup methods

## 7. HANDLING AND STORAGE

- Handling : Avoid contact with skin and eyes.  
Storage : Store in a dry, cool and well-ventilated area away from heat, open flame or other potential sources of ignition. Keep out of the reach of children. For Professional use only.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

When handling product as supplied :

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Engineering controls

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: Provide sufficient mechanical ventilation to maintain low concentrations of vapors.

## Occupational Exposure Limits

: No occupational exposure limits have been established-United Kingdom.

## Personal protective equipment

Respiratory system

: NIOSH / MSHA approved respirator when high concentrations of vapors exist.

Skin and body

: If major exposure is possible, wear chemical resistant protective clothing.

Hands

: Chemical resistant gloves.

Eyes

: Safety glasses recommended.

Information should be confirmed by workplace assessment.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : Liquid  
Color : Clear to amber  
Odor : Alcohol odor  
Solubility : Miscible  
Boiling Point : 165-178° F (74-81° C)  
Vapor Pressure (mm Hg) : 40  
Evaporation Rate (n-Butyl Acetate=1) : >1  
Specific Gravity : 0.80-0.92  
Percent Volatile by Volume : 90-95%  
Flash point : 24° F (4.44° C)

## **10. STABILITY AND REACTIVITY**

### Local effects

Skin irritation : See section 4.  
Eye irritation : See section 4.  
Sensitization : None known.  
Chronic toxicity : None known.

### Specific effects

Carcinogenicity : None known.  
Mutagenicity : None known.  
Reproduction toxicity : None known.

## **12. ECOLOGICAL INFORMATION**

No environmental hazards have been reported or known.

## **13. DISPOSAL CONSIDERATIONS**

Methods of Disposal : Disposal according to local regulations.

## **14. TRANSPORT INFORMATION**

Proper Shipping Names : DOT: Printing Ink IMCO: Flammable Liquid  
Hazard Classification : Flammable Liquid UN1210 Flammable Liquid UN1993

## **15 REGULATORY INFORMATION**

### National regulations

United Kingdom: No additional national regulations are known to the supplier.

### EU Regulations

EU Classifications : Classified as hazardous according to current legislation.  
(67/548/EEC-88/379/EEC)  
EINECS Status : All components are included in the EINECS inventories.

## **16. OTHER INFORMATION**

Coloring : Preservatives

## **HISTORY**

Date of printing : May 22, 2009  
Date of previous issue : -----

The information provided in this Safety Data Sheet is Correct to the Best of our knowledge at the date of issue and covers applications when used as directed.