

Revision Date: 2/10/2015 Page 1 of 6

#### 1. PRODUCT IDENTIFICATION

PRODUCT NAME: #514 UV Non-Porous Ink
PRODUCT USE: Coding and Marking
PANNIER P/N IU514-UV4K

PRODUCT COLOR: Invisible

Manufacturer/Supplier:
PANNIER CORPORATION
207 SANDUSKY STREET

SDS #514 UV Non-Porous Ink

PITTSBURGH, PA 15212-5823 U.S.A.

24 Hr Emergency Telephone Number: INFOTRAC 1-800-535-5053

# 2. HAZARDS IDENTIFICATION

Classification: Flammable Liquids Category 3 Acute toxicity, Oral Category 5 Acute toxicity, Inhalation Category 4 Skin corrosion/Irritation Category 3 Serious Eye Damage/eye irritation Category 1 Reproductive toxicity Category 1B Skin Sensitization Category 1 Aspiration hazard Category 1 Specific target organ toxicity (single exposure) Category 3

Labeling: Symbols:









Signal Word: Danger

Hazard statements: H226 Flammable liquid and vapor

H303 May be harmful if swallowed H316 Causes mild skin irritation H318 Causes serious eye damage

H332 Harmful if inhaled

H336 May cause drowsiness or dizziness H360 May damage fertility or the unborn child

**Precautionary statements:** 

P201 Obtain special instruction before use

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves/protective clothing/eye protection/face protection P305+351+338 if in eyes: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

P308+P313 If exposed or concerned. Get medical advice/attention P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS			
Chemical Name	CAS#	Wt. %	
Methoxy-2-propanol	107-98-2	15-30	
4-Hydroxy-4-methyl-2-pentanone	123-42-2	15-30	
2-propanol	67-63-0	15-30	

SDS #514 UV Non-Porous Ink Revision Date: 2/10/2015 Page 2 of 6

Ethyl Alcohol 64-17-5 5-15 2-(2-Ethoxyethoxy)ethanol 111-90-0 5-15

### 4. FIRST AID MEASURES

**Ingestion:** if swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Rinse mouth with water. Consult a physician

**Eye contact:** rinse thoroughly with plenty of water for at least 15 minutes and consulting position

Skin contact: wash off with soap and plumbing of water. Consult a physician

**Inhalation:** if three thin, move person into fresh air. If not breathing, if artificial respiration. Consult a

physician

most important symptoms and effects

**Symptoms** causes eye damage. May be harmful if absorbed through skin. Harmful if inhaled.

Causes respiratory tract irritation. Papers may cause drowsiness and dizziness. May be

harmful if swallowed

Indication of any immediate medical attention and special treatment needed

Notes to physician treat symptomatically

### 5. FIREFIGHTING MEASURES

**Suitable extinguishing media**: water fog, multipurpose foam, dry chemical, CO2

**Specific hazards in case of fire** fight as volatile liquid fire vapors are dense and may travel to

remote ignition source

Hazardous composition products carbon oxides nitrogen oxides organic combustion products which

may be toxic and/or irritating

Protective equipment and precautions for firefighters:

as in any fire, where self-contained breathing apparatus pressure

demand. MSHA/N OSH (as approved or equivalent) and full

protective gear

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** where chemical goggles, gloves, boots and protective clothing.

Wear respirator if necessary. Avoid breathing vapors, missed or gas.

Ensure adequate ventilation. Remove all sources of ignition and heat.

**Environmental precautions**: 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 San, filter grade, vermiculite or other inert absorb material. In place and they 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 other 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 SLOWLY. Do not unscrew entirely until all pressure has been completely released area keep away from heat/sparks/open flames/hot surfaces. Empty containers may contain residues. Precautions apply to empty containers.

SDS #514 UV Non-Porous Ink **Revision Date: 2/10/2015** Page 3 of 6

### Conditions for safe storage:

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

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure quidelines:

Chemical Name and CAS#	ACGIH TLV	OSHA PEL	NIOSH IDHL
1-Methoxy-2-propanol	TWA 100 ppm	TWA 100 ppm	TWA 100 ppm
107-98-2	STEL 150 ppm	TWA 360 mg/m <sup>3</sup>	TWA 360 mg/m <sup>3</sup>
		STEL 150 ppm	STEL 150 ppm
		STEL 540 mg/m <sup>3</sup>	STEL 540 mg/m <sup>3</sup>
2-Hydroxy-4-methyl-2-pentanone	TWA 50 ppm	TWA 50 ppm	IDLH 1800 ppm
123-42-2		TWA 240 mg/m <sup>3</sup>	TWA 50 ppm
			TWA 240 mg/m <sup>3</sup>
2-Propanol	TWA 200 ppm	TWA 400 ppm	IDLH 2000 ppm
67-63-0		TWA 980 mg/m <sup>3</sup>	TWA 400 ppm
		STEL 500 ppm	TWA 980 mg/m <sup>3</sup>
		STEL 1225 mg/m <sup>3</sup>	STEL 500 ppm
			STEL 1225 mg/m <sup>3</sup>
Ethyl Alcohol	TWA 1000 ppm	TWA 1000 ppm	IDLH 3300 ppm
64-17-5		TWA 1900 mg/m <sup>3</sup>	TWA 1000 ppm
			TWA 1900 mg/m <sup>3</sup>
2(2-Ethoxythoxy)ethanol	Not Established	Not Established	IDLH ppm
111-90-0			TWA ppm
			TWA mg/m <sup>3</sup>
			STEL ppm
			STEL mg/m <sup>3</sup>

### Appropriate engineering controls

Apply technical measures to comply with the occupational exposure limits. Local exhaust and mechanical ventilation's 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

if exposure limits are exceeded or irritation is experienced. Respiratory protection:

> 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**

Physical state: liquid Odor: low

**Odor Threshold:** Not determined :Ha Not determined **Boiling point:** Not determined Melting/Freezing point: Not determined Flash Point 32 C, 23.3° C/74° F

**Evaporation rate (n-Butyl acetate = 1):** <1

Flammability (solid, gas): Not determined **Upper/Lower flammable limit** Not determined Vapor pressure Not determined

Vapor density (Air = 1): >1 Specific gravity (water =1) 0.96

SDS #514 UV Non-Porous Ink Revision Date: 2/10/2015 Page 4 of 6

Water solubility:

Solubility and other solvents:

Partition coefficient:

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Complete

Not determined

Not determined

Not determined

Not determined

VOC content (%): 95%

**VOC content:** 7.6 pounds/gallon

### 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions

**Chemical stability:** Stable under the 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

Hazardous decomposition products: carbon oxides, nitrogen oxides. Thermal decomposition can lead to

release of irritating and toxic gases and vapors.

### 11. TOXICOLOGICAL INFORMATION

#### Information unlikely routes of exposure

**Eye contact:** Causes eye irritation

Skin contact: May be harmful if absorbed through skin. Causes skin irritation

**Inhalation:** May be harmful if inhaled. Causes respiratory irritation. May cause

drowsiness or dizziness.

**Ingestion:** May be harmful if swallowed

**Component information:** 

Chemical name and CAS#	Oral LD50	Dermal LD50	Inhalation LC50
1-Methoxy-2-propanol 107-98-2	= 11,700 mg/kg (mouse)	= 13,000 mg/kg (rabbit)	= 10,000 mg.m <sup>3</sup> (rat) 5h
2-Hydroxy-4-methyl-2-pentanone 123-42-2	= 2,520 mg/kg (rat)	= 13,500 mg/kg (rabbit)	= 1,500 ppm (rat) 5h
2-Propanol 67-63-0	= 5,045 mg/kg (rat)	= 12,800 mg/kg (rabbit)	= 16,000 mg.m <sup>3</sup> (rat) 5h
Ethyl Alcohol 64-17-5	= 7,060 mg/kg (rat)	No Data	= 20,000 mg.m <sup>3</sup> (rat) 5h
2(2-Ethoxythoxy)ethanol 111-90-0	= 10,502 mg/kg (rat)	= 9,143 mg/kg (rabbit)	> 200 mg/l (rat) 5h

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

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

Carcinogenicity:

**2-Propanol 67-63-0** Group 3 (IARC)

### IRAC (International Agency for Research on Cancer)

Group 1 - carcinogenic to humans

Group 2B - limited evidence carcinogenity

Group 3 - IARC components are "not classified as human carcinogens"

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**:

Component information

Component information				
Chemical Name and CAS#	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1-Methoxy-2-propanol 107-98-2		LC50 - Pimephales promelas - 20,800 mg/l - 96 h	1	EC50 - Daphnia magna - 23,300 mg.l - 48 h
2-Hydroxy-4-methyl-2-pentanone		LC50 - Lepomis		EC50 - Daphnia

#### SDS #514 UV Non-Porous Ink

**Revision Date: 2/10/2015** 

Page 5 of 6

123-42-2		macrochirus - 420 mg/lo 96 h		magna - 9,000 mg.l - 24 h
2-Propanol 67-63-0	EC50 - Desmodesnus subspicatus - 2000 mg/l - 72 h	LC50 - Pimephales promelas - 9,640 mg/l - 96 h		EC50 - Daphnia magna - 5,102 mg.l - 96 h
Ethyl Alcohol 64-17-5		LC50 - Pimephales promelas - 15,300 mg/l - 96 h	EC50 - 34,634 mg/l 30 min EC50 - 35470 mg/l 5 min	EC50 - Daphnia magna - 9,268- 14221 mg.l - 48 h
2(2-Ethoxythoxy)ethanol 111-90-0		LC50 - Pimephales promelas - 9,650 mg/l - 96 h		EC50 - Daphnia magna - 3,340 mg.l - 48 h

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 – TRANSPORT INFORMATION**

DOT

UN number 1210

Proper shipping name Printing ink, Flammable

Hazard class 3
Packing group III
ERG# 129

IATA

UN number 1210

**Proper shipping name** Printing ink, Flammable

Hazard class 3
Packing group III

**IMDG** 

UN number 1210

**Proper shipping name** Printing ink, Flammable

Hazard class 3
Packing group III
Marine pollutant No

## **SECTION 15 – REGULATORY INFORMATION**

TSCA status: All Components listed

Other Regulatory:

<u>Ingredients</u>	<u>SARA 302</u>	SARA 311/312	<b>SARA 313</b>	RECRA	<u>CERCLA</u>
1-Methoxy-2-propanol	No	F,A,C	No	No	No
2-Hydroxy-4-methyl-2-pentanone	No	F,A,C	No	No	No
2-Propanol	No	F,A,C	Yes	No	No
Ethyl Alcohol	No	F,C	No	No	No
2(2-Ethoxythoxy)ethanol	No	С	Yes	No	Yes
SARA 311/312 Codes:	R = Reactive Hazard				

P = Pressure Hazard F = Fire Hazard A = Immediate/Acute C = Delayed/Chronic SDS #514 UV Non-Porous Ink

**Revision Date: 2/10/2015** 

Page 6 of 6

**California Pop. 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 other reproductive harm

## **SECTION 16 – OTHER INFORMATION**

HMIS:

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

#### **Disclaimer of Liability**

As the conditions or methods of use of beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of the material described in this SDS. Information contained herein is given in good faith believed to be true and accurate, but all statements or suggestions are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material, or results to be obtained from the use thereof. All of the listed ingredients in this product that are considered present a health hazard as defined in the Appendix A of the OSHA quote "Hazard Communication" standard (29CFR 1910.1200) as listed in Section II. All of the information given, including ingredient identification, CAS number, and quantity, proprietary information, which has been provided in order to meet the objective of the "Hazard Communication" standard. Data provided here are typical and not intended for use as product specifications. This formulation information is confidential, and only to be disclosed in accordance with the Federal and State safety and health regulations. Permission to disclose any ingredient information for any other purpose is neither given nor implied.