



**SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION**

**PRODUCT NAME:** 1530TPKD WS140 Ink

**PRODUCT USE:** Rubber Striping

**PRODUCT COLOR:** White

Not recommended for: Consumer Use

**Manufacturer/Supplier:**

PANNIER CORPORATION

207 SANDUSKY STREET

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

**24 Hr Emergency Telephone Number: Infotrac 1-800-535-5053**

**SECTION 2 - HAZARDS IDENTIFICATION**

**GHS Ratings:**

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Dermal Toxicity	Acute Tox 5	Anticipated oral LD50 between 2000 and 5000 mg/kg; Indication of significant effect in humans; Any mortality at class 4; Significant clinical signs at class 4
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Skin sensitizer	1	Skin sensitizer
Mutagen	2	Suspected/Possible: May include heritable mutations in human germ cells, Positive evidence from tests in mammals and somatic cell tests, In vivo somatic genotoxicity supported by in vitro mutagenicity
Carcinogen	2	Limited evidence of human or animal carcinogenicity
Reproductive toxin	1B	Known or presumed to cause effects on human reproduction or on development

**GHS Hazards GHS Precautions**

H225	Highly flammable liquid and vapor	P201	Obtain special instructions before use
		P202	Do not handle until all safety precautions have been read and understood
H301	Toxic if swallowed		
H311	Toxic in contact with skin		
H317	May cause an allergic skin	P210	Keep away from heat/sparks/open reaction flames/hot surfaces – No smoking
H341	Suspected of causing genetic defects	P233	Keep container tightly closed
		P240	Ground/bond container and receiving equipment
H351	Suspected of causing cancer	P241	Use explosion-proof electrical/ventilating/light/equipment
H360	May damage fertility or the unborn child	P242	Use only non-sparking tools
		P243	Take precautionary measures against static discharge
		P261	Avoid breathing dust/fume/gas/mist/vapors/spray
		P264	Wash ... thoroughly after handling
		P272	Contaminated work clothing should not be allowed out of the workplace
		P280	Wear protective gloves/protective clothing/eye protection/face protection
		P281	Use personal protective equipment as required
		P312	Call a POISON CENTER or doctor/physician if you feel unwell
		P321	Specific treatment (see ... on this label)
		P362	Take off contaminated clothing and wash before reuse
		P363	Wash contaminated clothing before reuse
		P405	Store locked up
		P501	Dispose of contents/container to ...

Danger

**Possible Routes of Entry**

Inhalation    Skin Contact    Eye Contact    Ingestion

**Potential Target Organs**

Eyes    Kidneys    Liver    Lungs    Central Nervous System    Skin    Respiratory System

**Acute Toxicity**

N/A

**Effects of Overexposure****The following components are possible carcinogens****Titanium (IV) dioxide:** NIOSH: potential occupational carcinogen

IARC: Possible human carcinogen

OSHA: listed

\*Material labeled a carcinogen in dust form are supplied in solution, thus eliminating the hazard

**Conditions Aggravated**

N/A

**Chronic Effects**

N/A

**SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name / CAS No	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Proprietary Polymer 1 to 5%	N/A	N/A	N/A
Cyclohexanone 108-94-1 1 to 5% Vapor Pressure: 3.375 mmHg	50 ppm TWA; 200 mg/m3 TWA	50 ppm STEL 20 ppm TWA	NIOSH: 25 ppm TWA 100 mg/m3 TWA
Titanium (IV) dioxide 13463-67-7 10 to 20%	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	N/A
Isopropanol 67-63-0 1 to 5% Vapor Pressure: 31.503	400 ppm TWA; 980 mg/m3	TWA 400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA 980 mg/m3 TWA 500 ppm STEL; 1225 mmHg mg/m3 STEL
Silicon dioxide 7631-86-9 1 to 5% Vapor Pressure: 9.976 mmHg	20mppcf; TWA. - Table Z-3 Mineral Dusts	N/A	NIOSH: 6 mg/m3 TWA
Ethyl methyl ketone 78-93-3 60 to 70% Vapor Pressure: 75.756 mmHg	200 ppm TWA; 590 mg/m3 TWA 300 ppm STEL	200 ppm TWA	NIOSH: 200 ppm TWA; 590 mg/m3 TWA 300 ppm STEL; 885 mg/m3 STEL
Cellulose Nitrate 9004-70-0 1 to 5%	N/A	N/A	N/A

**SECTION 4 - FIRST AID MEASURES**

**INHALATION** - Move affected person to fresh air, rest in a half upright position, and loosen clothing. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Seek medical advice after significant exposure.

**EYE CONTACT** - Flush with large amounts of water for at least 15 minutes. Lift eyelids occasionally. Get prompt medical attention.

**SKIN** - Wash thoroughly with soap and water immediately. Remove all contaminated clothing immediately. Seek medical advice if irritation persists.

**INGESTION** - Seek medical advice. The decision to induce vomiting or not must be made by a physician after careful consideration of all materials ingested. Risk of aspiration into lungs.

**SECTION 5 - FIRE FIGHTING MEASURES**

LEL: 1.1 %

UEL: 12.0 %

**Suitable Extinguishing Media**

Carbon Dioxide---Dry Chemical---Foam---Water Fog  
Use water for cooling material stored in vicinity of fire.

**Explosion Hazards**

Vapors are heavier than air and may travel along the ground to an ignition source some distance from material

handling point. Ignition sources include pilot lights, smoking, heaters, electric motors, sparks from electrical switches and static discharges.

CAUTION: Never use cutting torch on empty containers! Residual solvent vapor in empty container may explode. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain Medical Attention.

#### Hazardous Combustion Products

N/A

#### Recommended Fire Equipment

Use self-contained breathing apparatus with a full-face piece operated in a pressure-demand or other positive pressure mode. Wear protective clothing.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### In Case of Spill

Evacuate non-emergency personnel, Isolate the area and prevent access. Remove ignition sources. Notify management. Put on protective equipment. Control source of the leak. Ventilate. Contain the spill to prevent spread to drains, sewers, water supplies, or soil. Contact APV (330-773-8911) for assistance and advice. Cover spill area with a suitable absorbent material (Kitty Litter, Oil-Dri, etc.). Saturate absorbent material with neutralization solution and mix. Wait 15 minutes. Collect material in open-head metal containers. Repeat applications of decontamination solution with scrubbing, followed by absorbent until the surface is decontaminated. Check for residual surface contamination. Swipe test kits have been used for this purpose. Apply lid loosely and allow containers to vent for 72 hours to let carbon dioxide diffuse.

To minimize vapor, cover the spillage with fire fighting foam (AFFF). Released material may be pumped into closed, but not sealing, metal containers for disposal. Process can generate heat.

### Neutralization solutions

- (1) Calorimetric Laboratories Inc. (CLI) decontamination solution.
  - (2) A mixture of 75% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10) and 5% n-propanol.
  - (3) A mixture of 80% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10).
  - (4) A mixture of 90% water 3-8% ammonium hydroxide or concentrated ammonia and 2% liquid detergent.
- Pannier requires that INFOTRAC be immediately notified (800-535-5053) when this product is unintentionally released from its container during its course of distribution, regardless of the amount released. Distribution includes transportation, storage incidental to transportation, loading and unloading. Such notification must be immediate and made by the person have knowledge of the release.

## SECTION 7 - HANDLING AND STORAGE

### Precautions for Safe Handling

Keep away from food, drink and heat. Keep away from sources of ignition. No smoking. Do not breathe vapor. Avoid contact with skin and eyes. Never use pressure to empty. Take precautionary measures against static discharges.

### Storage temperature-

**Minimum:** do not freeze

**Maximum:** 40°C (104°F)

**Storage Period-** See technical data sheet.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name / CAS No	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Proprietary Polymer	N/A	N/A	N/A
Cyclohexanone 108-94-1	50 ppm TWA 200 mg/m3 TWA	50 ppm STEL 20 ppm TWA	NIOSH: 25 ppm TWA 100 mg/m3 TWA
Titanium (IV) dioxide 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	N/A
Isopropanol 67-63-0	400 ppm TWA; 980 mg/m3 TWA	400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA 980 mg/m3 TWA 500 ppm STEL; 1225 mg/m3 STEL

Silicon dioxide 7631-86-9	20mppcf; TWA. - Table Z-3 Mineral Dusts	N/A	NIOSH : 6 mg/m3 TWA
Ethyl methyl ketone 78-93-3	200 ppm TWA; 590 mg/m3 TWA	300 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 590 mg/m3 TWA 300 ppm STEL; 885 mg/m3 STEL
Cellulose Nitrate 9004-70-0	N/A	N/A	N/A

Provide sufficient ventilation in volume and pattern to keep air containment concentration below current applicable OSHA permissible exposure limit or ACGIH TLV limit, and volatiles below lower explosive limit. Heavy solvent vapors should be removed from the lower levels of area, and all ignition sources (non-explosion proof equipment) should be eliminated if flammable mixtures will be encountered. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product. For baking finishes - vent vapors emitted on heating.

**Respiratory Protection-** Operator is to use an approved half mask organic vapor respirator under normal conditions. An air supplied, positive pressure respirator may be required if working conditions to not provide adequate ventilation to keep exposures below the limits.

**Skin and Body Protection-** Wear chemical resistant gloves (nitrile) and paint suits. The most suitable glove must be chosen in consultation with the gloves supplier who can inform about the breakthrough time of the glove material.

**Eye Protection-** Wear approved chemical safety goggles where exposure to vapor or contact with eyes is possible . Eye wash stations should also be made available.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties:

<b>% Weight Solids</b>	26.89 %	<b>Volume Solids</b>	11.22
<b>VOC Wt/Gal (wet)</b>	6.08 U.S.	<b>VOC Wt/Gal (wet)</b>	6.08
<b>Specific Gravity (SG)</b>	0.997	<b>Odor:</b>	Acetate
<b>Color:</b>	White	<b>pH:</b>	N/a
<b>Viscosity</b>	650 Centipoise	<b>Boiling Point:</b>	80°C
<b>Flash Point:</b>	16 F,-9 C	<b>LEL/UEL</b>	1% - 12%
<b>Autoignition Temperature:</b>	170°C		

## **SECTION 10 - STABILITY AND REACTIVITY**

The following materials should be avoided in contact with the mixture

- Oxidizing agents
- Strong acids
- Reducing agents

### **Hazardous decomposition products**

- Carbon oxides
- Titanium/titanium oxides
- Hazardous polymerization will not occur.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

### **Mixture Toxicity**

**Oral Toxicity:** 3,176.00mg/kg

**Dermal Toxicity:** 5,000.00mg/kg

**Inhalation Toxicity:** 21.46mg/L

### **Component Toxicity:**

<b>Component Description Oral, Dermal, Inhalation Toxicity</b>	<b>Ecotoxicity:</b>
Proprietary Polymer	N/A
Cyclohexanone Oral:1,544.00 mg/kg (Rat) Dermal: 947.00 mg/kg (Rabbit)	96 Hr LC50 Pimephales promelas: 481 - 578 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 8.9 mg/L
Titanium (IV) dioxide	N/A

Isopropanol Oral:1,870.00 mg/kg (Rat) Dermal: 4,059.00 mg/kg (Rabbit)	96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus:>1400000 µg/L 48 Hr EC50 Daphnia magna: 13299 g/L 96 Hr EC50 Desmodesmus subspicatus: >1000 mg/L; 72 Hr EC50 Desmodesmus subspicatus: >1000 mg/L
Silicon dioxide	96 Hr LC50 Brachydanio rerio: 5000 mg/L [static] 48 Hr EC50 Ceriodaphnia dubia: 7600 mg/L 72 Hr EC50 Pseudokirchneriella subcapitata: 440 mg/L
Ethyl methyl ketone Oral:2,483.00 mg/kg (Rat) Dermal: 5,000.00 mg/kg (Rabbit)	96 Hr LC50 Pimephales promelas: 3130 - 3320 mg/L [flow-through] 48 Hr EC50 Daphnia magna: >520 mg/L; 48 Hr EC50 Daphnia magna: 5091 mg/L; 48 Hr EC50 Daphnia magna: 4025 - 6440 mg/L [Static]
Cellulose Nitrate Oral:5,000.00 mg/kg (Mouse)	N/A

LC50 and LD50 toxicity for this product have yet to be determined. For individual component ecotoxicity, please refer to Section 11.

## **SECTION 12 - ECOLOGICAL INFORMATION**

### **Mixture Ecotoxicity**

**Toxicity-** Do not release into environment . May cause long term adverse effects .

**Persistence and degradability-** N/A

**Bioaccumulative potential-** N/A

**Mobility in Soil-** N/A

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in accordance with federal, state and local regulations. Controlled incineration is recommended for disposal of unused product. Prevent contamination of soil, drains and surface waters. Dispose of large containers to a licensed reconditioner. Dispose of small containers in compliance with local regulations

## **SECTION 14 - TRANSPORT INFORMATION**

**Agency Proper Shipping Name UN Number Packing Group Hazard Class**

N/A

## **SECTION 15 - REGULATORY INFORMATION**

**The following chemicals are listed in California Title 8 CCR Sections as Hazardous Substances**

7631-86-9 Silicon dioxide

108-94-1 Cyclohexanone

67-63-0 Isopropanol

78-93-3 Ethyl methyl ketone

**The following chemicals are listed in California Title 8 CCR Sections 5200-5220 as Carcinogens .**

- None

**The following chemicals are listed in California Title 8 CCR Section 5203 as Carcinogens**

- None

**The following chemicals are listed in California Title 8 CCR Section 5209 as Carcinogens .**

- None

**The following chemicals are listed in Section 64 of the Canadian Environmental Protection Act, 1999 (CEPA)**

- None

**The following chemicals are classified by China - Environmental Quality Standards for Surface Water**

- None

**The following bio-cides have been listed as exempt by the European Union and are acceptable for regional use:**

- None

**The following chemicals have been listed by the EU-End of Life Vehicles (2000/53/EC) (ELV):**

- None

**The following chemicals are listed in the EU-Substances of Very High Concern (2008/67/ED) (SVHC):**

- None

**The following chemicals are listed in the EU-Restriction of the use of certain Hazardous Substances (2011/65/EU) (RoHS):**

- None

**The following chemicals are listed under the European Union- Waste Electrical and Electronic Equipment (2012/19/EU) (WEEE)**

- None

**The following chemicals are included in the Global Automotive Declarable Substance List (GADSL)**

9004-70-0 Cellulose Nitrate

**The following chemicals are listed on the Massachusetts Right-to-Know Hazardous Substances List.**

7631-86-9 Silicon dioxide

9004-70-0 Cellulose Nitrate

108-94-1 Cyclohexanone

67-63-0 Isopropanol

13463-67-7 Titanium (IV) dioxide

78-93-3 Ethyl methyl ketone

**The following chemicals are listed on the New Jersey Right-to-Know Hazardous Substances List.**

7631-86-9 Silicon dioxide

9004-70-0 Cellulose Nitrate

108-94-1 Cyclohexanone

67-63-0 Isopropanol

13463-67-7 Titanium (IV) dioxide

78-93-3 Ethyl methyl ketone

**The following chemicals are listed on the Pennsylvania Right-to-Know Hazardous Substances List.**

7631-86-9 Silicon dioxide

9004-70-0 Cellulose Nitrate

108-94-1 Cyclohexanone

67-63-0 Isopropanol

13463-67-7 Titanium (IV) dioxide

78-93-3 Ethyl methyl ketone

**The following chemicals are listed by the State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):**

13463-67-7 Titanium (IV) dioxide Carcinogen

**The following chemicals are listed in EPCRA (SARA) Section 311/312: Hazardous Chemicals**

108-94-1 Cyclohexanone

78-93-3 Ethyl methyl ketone

**The following chemicals are listed in EPCRA (SARA) Section 313: Persistent, Bioaccumulative, and Toxic Chemicals (PBT)**

- None

**The following chemicals are listed under EPCRA (SARA) Section 313: Toxic Release Inventory (TRI)**

- None

**The following chemicals are listed under listed under the U.S. CAA (Clean Air Act)**

- None

#### **Country Regulation All Components Listed**

Australia Australian Inventory of Chemical Substances (AICS) No

Canada Canadian Domestic Substances List (DSL) No

Canada Canadian Non-Domestic Substances List (NSDL) No

China Inventory of Existing Chemical Substances Produced or Imported in China (IECSC) No

Europe European Inventory of Existing Commercial Chemical Substances (EINECS) No

Europe European List of Notified Chemical Substances (ELINCS) No

Europe REACH Registered or Pre-Registered Substances and Intermediates No

Japan Japanese Inventory of Existing and New Chemical Substances (ENCS) No

Korea Korean Existing Chemical Inventory (KECI) No

Philippines Philippines Inventory of Chemicals and Chemical Substances (PICCS) No

USA Toxic Substances and Control Act (TSCA) No

#### **EU Risk Phrases**

R5: Heating may cause an explosion

R7: May cause fire

R11: Highly flammable

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed

#### **Safety Phrase**

S7: Keep container tightly closed

S15: Keep away from heat

S16: Keep away from sources of ignition - No smoking  
S23: Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer)  
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

**SECTION 16 - OTHER INFORMATION**

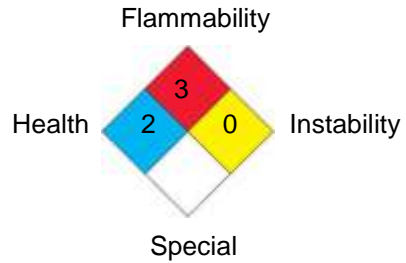
NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

**Hazardous Material Information System (HMIS)**



HMIS & NFPA Hazard Rating Legend  
\* = Chronic Health Hazard  
0 = INSIGNIFICANT  
1 = SLIGHT  
2 = MODERATE  
3 = HIGH

**National Fire Protection Association (NFPA)**



The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.