

SAFETY DATA SHEET

Section 1 - Chemical Product and Company Information



PANNIER CORPORATION
207 Sandusky Street
Pittsburgh, PA 15212-5823 USA

www.pannier.com
Information Telephone: 412-323-4900
Email: sales@pannier.com
Infotrac: 800-535-5053

Product Code: D-1213
Product Name: BRT WHITE INK
Product Use: Jet Printer Ink
Not recommended for: Consumer Use

Section 2 - Hazards Identification

GHS Ratings

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
Aspiration hazard	1	Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity ? 20.5 mm ² /s at 40° C.

GHS Hazards

H225	Highly flammable liquid and vapor
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

GHS Precautions

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/light/manufacture/equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash contact area 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
P285	In case of inadequate ventilation wear respiratory protection
P321	Specific treatment (see supplemental first aid instruction on this label)
P331	Do NOT induce vomiting
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P302+P352	IF ON SKIN: wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P332+P313 If skin irritation occurs: Get medical advice/attention.
 P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.
 P342+P311 IF experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
 P370+P378 In case of fire: Use ... to extinguish.
 P405 Store locked up
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Signal Word: Danger



Acute Toxicity

N/A

Conditions Aggravated

N/A

Chronic Effects

N/A

Section 3 - Composition / Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
Distillates, petroleum, light distillate hydrotreating process, low-boiling	68410-97-9	40.00%
Petroleum distillates, hydrotreated light	64742-47-8	29.00%
Naphtha, petroleum, hydrotreated light	64742-49-0	22.00%
Titanium (IV) dioxide	13463-67-7	6.00%
1,3-Butadiene, 2-methyl-, homopolymer	9003-31-0	3.00%

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

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

Non-emergency personnel: Evacuate and isolate the area and prevent access. Remove ignition sources. No flares, smoking or flames in hazard area. Notify management. Avoid breathing vapor or mist and put on protective equipment. Control source of the leak. Ventilate.

Emergency responders: See section 8 for any specialized clothing recommendations. Also reference the information for non-emergency personnel

Environmental precautions: Prevent further leakage or spillage if possible. Do not allow the material to spread to drains, sewers, water supplies, or soil. Contact PANNIER for assistance and advice.

Small Spill: Stop leak if possible and move containers from the spill area. Water soluble: dilute with water and mop up. Water Insoluble: Cover spill area with a suitable absorbent inert material (Kitty Litter, Oil-Dri, etc.) and dispose of in an appropriate metal waste container. Dispose of material through a licensed waste disposal contractor.

Large Spill: Stop leak if possible and move containers from the spill area. Approach release from upwind. Contain spillage and with non-combustible absorbent material and place in appropriate disposal container according to local regulations. Dispose of material through a licensed waste disposal contractor. Report spill to appropriate governing agencies if applicable.

PANNIER requires that INFOTRAC be immediately notified 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
Distillates, petroleum, light distillate hydrotreating process, low-boiling 68410-97-9	Not Established	Not Established	Not Established
Petroleum distillates, hydrotreated light 64742-47-8	Not Established	Not Established	Not Established
Naphtha, petroleum, hydrotreated light 64742-49-0	Not Established	Not Established	Not Established
Titanium (IV) dioxide 13463-67-7	15 mg/m ³ TWA (total dust)	10 mg/m ³ TWA	N/A
1,3-Butadiene, 2-methyl-, homopolymer 9003-31-0	Not Established	Not Established	Not Established

Engineering Controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other controls 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.

Environmental Controls: Emissions should comply with environmental protection legislation.

Individual Protection Measures:

Hygiene measures- Wash hands, forearms, etc. after handling chemical products, before eating, smoking, and using the lavatory, and the end of the work period. Use appropriate techniques when removing potentially contaminated clothing and wash before reusing. Know the locations of eyewash and safety showers.

Respiratory Protection- Provide adequate ventilation to keep exposure below permissible limits. If a risk assessment deems necessary, operator is to use a properly fitted, air purifying or supplied air respirator. Respirator selection must be based on known/ anticipated exposure levels, the hazards of the product, and the safe working limits of the respirator.

Skin and Body Protection- Wear chemical resistant gloves (nitrile) and paint suits when necessary, based on risk assessment. The most suitable glove must be chosen in consultation with the gloves supplier who can inform about the breakthrough time of the glove material. PPE for the body should be selected based on the risks of the task being performed and approved by a specialist. Appropriate footwear should also be approved.

Eye/Face Protection- Wear approved chemical safety goggles where exposure to vapor or contact with eyes is

possible. Eye wash stations should also be made available. If inhalation hazard exists, a risk assessment will determine if a full-face respirator may be required

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties:

<p style="text-align: center;">Viscosity: Not determined</p> <p style="text-align: center;">% Weight Solids 8.62</p> <p style="text-align: center;">VOC Wt/Gal (wet) 6.04</p> <p style="text-align: center;">Specific Gravity (SG) 0.793</p> <p style="text-align: center;">Odor Threshold: Not determined</p> <p style="text-align: center;">Boiling Point: 185°C</p> <p style="text-align: center;">LEL/UEL: N/A</p> <p style="text-align: center;">Evaporation Rate (nBuAc=1): Not determined</p> <p style="text-align: center;">Vapor Density: N/A</p> <p style="text-align: center;">Partition coefficient: Not determined</p>	<p style="text-align: center;">pH: N/A</p> <p style="text-align: center;">% Volume Solids 3.53</p> <p style="text-align: center;">U.S. VOC Wt/Gal (wet) 6.04</p> <p style="text-align: center;">Odor: Hydrocarbon</p> <p style="text-align: center;">Color: White</p> <p style="text-align: center;">Flash Point: 32°F, 0°C</p> <p style="text-align: center;">Autoignition Temperature: N/A</p> <p style="text-align: center;">Vapor Pressure: N/A</p> <p style="text-align: center;">Freezing Point: Not determined</p>
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Section 10 - Stability and Reactivity

The following materials should be avoided in contact with the mixture

Strong acids

Hazardous decomposition products

Titanium/titanium oxides

Section 11 - Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 3,733mg/kg

Dermal Toxicity LD50: 3,139mg/kg

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

Possible Routes of Entry

Inhalation Eye Contact Ingestion

Potential Target Organs

Respiratory System

Effects of Overexposure

Not Available

The following components are possible carcinogens

***Materials labeled a carcinogen in dust form are supplied in solution, thus eliminating the hazard.**

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
13463-67-7	Titanium (IV) dioxide	6	Titanium (IV) dioxide: (*dust) NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed

68410-97-9	Distillates, petroleum, light distillate hydrotreating process, low-boiling	40	Distillates, petroleum, light distillate hydrotreating process, low-boiling: EU REACH: Present (P)
64742-49-0	Naphtha, petroleum, hydrotreated light	22	Naphtha, petroleum, hydrotreated light: EU REACH: Present (P)

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

Component Ecotoxicity

Petroleum distillates, hydrotreated light	96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 2.2 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 2.4 mg/L [static]
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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

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	PRINTING INK	UN1210	II	3
DOT - LQ	PRINTING INK LTD QTY	UN1210	II	3
IATA	PRINTING INK Pkg Instr: Y341/353/364	UN1210	II	3
IMDG	PRINTING INK EmS: F-E, S-D	UN1210	II	3
IMDG - LQ	PRINTING INK LTD QTY	UN1210	II	3

Section 15 - Regulatory Information

The following chemicals are listed in California Title 8 CCR Sections as Hazardous Substances
- None

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 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 included in the Global Automotive Declarable Substance List (GADSL)

- None

The following substances are required for notification by the Japanese Enforcement Order of the Industrial Safety and Health Law (ISHL):

13463-67-7 Titanium (IV) dioxide
64742-49-0 Naphtha, petroleum, hydrotreated light
64742-47-8 Petroleum distillates, hydrotreated light

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

13463-67-7 Titanium (IV) dioxide

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

13463-67-7 Titanium (IV) dioxide

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

13463-67-7 Titanium (IV) dioxide

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

- None

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) requires certain facilities manufacturing, processing, or otherwise using listed toxic chemicals to report their environmental releases of such chemicals annually. The following chemicals are listed:

- None

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

Under Section 12(b) of the Toxic Substances Control Act (TSCA), exporters may need to notify the U.S. Environmental Protection Agency if they export or intend to export a product containing a chemical substance that is present on this list. The following substances are contained within this material:

- None

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

- None

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Canadian Domestic Substances List (DSL)	Yes
Canada	Canadian Non-Domestic Substances List (NSDL)	No
China	Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)	Yes
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	Yes
Japan	Japanese Inventory of Existing and New Chemical Substances (ENCS)	No
Japan	Japan Inventory of Industrial Safety and Health Law Substances (ISHL)	No
Korea	Korean Existing Chemical Inventory (KECI)	Yes

New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes
USA	Toxic Substances and Control Act (TSCA)	Yes

EU Risk Phrases

Not Available

Safety Phrase

Not Available

Section 16 - Other Information

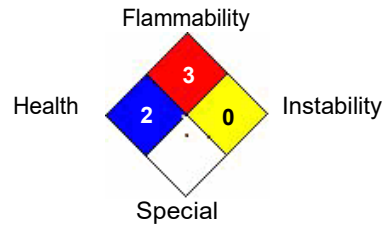
NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard . A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different 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)

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	G

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.

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