

# SAFETY DATA SHEET



NO-TOX LIQUID INK FGN-8904 NT23BR RED-199 U

Pannier requests that the users of this product study this Safety Data Sheet (SDS) and become aware of product hazards and safety information. To promote safe use of this product, a user should notify its employees, contractors and agents of the information in this SDS and any product hazards and safety information.

## Section 1. Identification

Product name : NO-TOX LIQUID INK

Product code : GRADE 560

### Use of the substance/mixture

Manufacture of pharmaceutical products and/or Manufacture of food products

Company : PANNIER CORPORATION  
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Emergency Number: Infotrac 800-535-5053

## Section 2. Hazards identification

Classification of the substance or mixture : Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 10.4%  
Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 12.1%  
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 20.7%

### GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

General :  
Prevention : Not applicable.  
Response : Not applicable.  
Storage : Not applicable.  
Disposal : Not applicable.

Hazards not otherwise classified : None known.

See Section 11 for more detailed information on health effects and symptoms.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
N-PROPYL ALCOHOL	1 - 5	71-23-8
POLYETHYLENE WAX	1 - 5	9002-88-4

Any concentration shown as a range is to protect confidentiality.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

Eye contact : Affected individual should remove contact lens, if present. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.

Inhalation : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur.

## Section 4. First aid measures

- Skin contact** : In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Get medical attention if irritation develops.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Potential acute health affects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

- Flammability of the product** : Non-flammable.
- Products of combustion** : No specific data.
- Explosion hazard** : Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.
- Special protective Equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

- Personal precautions** : Keep unnecessary personnel away. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Use suitable protective equipment (section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : Small spill : Absorb with an inert material and place in an appropriate waste disposal container.  
Large spill : Use appropriate containment to avoid environmental contamination. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Contaminated absorbent material may pose the same hazard as the spilled product. Use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal.

## Section 7. Handling and storage

- Handling** : Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Do not reuse container.
- Storage** : Keep container tightly closed. Store in a dry, cool and well-ventilated area. Store away from incompatible materials (see Section 10). Store in accordance with local regulations.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
N-PROPYL ALCOHOL	<b>ACGIH TLV (United States, 3/2018).</b> TWA: 100 ppm 8 hours. <b>NIOSH REL (United States, 10/2016).</b> <b>Absorbed through skin.</b> STEL: 625 mg/m <sup>3</sup> 15 minutes. STEL: 250 ppm 15 minutes. TWA: 500 mg/m <sup>3</sup> 10 hours. TWA: 200 ppm 10 hours. <b>OSHA PEL (United States, 5/2018).</b>

## Section 8. Exposure controls/personal protection

<b>Appropriate engineering controls</b>	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
<b>Individual protection measures</b>	
<b>Hygiene measures</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Eye/face protection</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
<b><u>Skin protection</u></b>	
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<b>Body protection</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Other skin protection</b>	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Respiratory protection</b>	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

Values provided should not be construed as specifications. See product specification for additional information.

<b>Physical state</b>	Liquid.
<b>Appearance</b>	Red Liquid
<b>Flash point</b>	Closed cup: 95°C (203°F)
<b>Boiling point</b>	Lowest known value: 97°C (206.6°F) (propan-1-ol). Weighted average: 110.61°C (231.1°F)
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Neutral.
<b>Melting point/freezing point</b>	May start to solidify at the following temperature: 0°C (32°F) this is based on data for the following ingredient: water. Weighted average: -8.93°C (15.9°F)
<b>Evaporation rate</b>	Highest known value: 0.933 (propan-1-ol) Weighted averages: 0.28 compared with butyl acetate
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Greatest known range: Lower: 2.1% Upper: 13.5% (propan-1-ol)
<b>Vapor pressure</b>	Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 2.79 kPa (20.93 mm Hg) (at 20°C)
<b>Vapor density</b>	Highest known value: 2.6 (Air= 1) (propane-1, 2-diol). Weighted average: 2.46 (Air= 1)

Relative density	Weighted average: 1.55 (Water = 1)
Solubility(ies)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Lowest known value: 371°C (699.8°F) (propane-1, 2-diol).
Decomposition temperature	Not available.
Viscosity	Dynamic: Highest known value: 43.43 cP (propane-1,2-diol) Weighted average: 31.62 cP
Explosive properties	Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.
Oxidizing properties	Not available.

## Section 10. Stability and reactivity

Reactivity	Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No specific data.
Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Chronic effects

Ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
N-PROPYL ALCOHOL	A4					

#### Additional information:

Not available.

#### Other toxic effects on humans

No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.

### Specific effects on humans

**Mutagenicity / Teratogenicity / Reproductive toxicity:** No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	41562.9 mg/kg

**Information on the likely routes of exposure** Routes of entry anticipated: Oral, Dermal, and Inhalation.

### Potential acute health effects

Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

## Section 11. Toxicological information

Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
N-PROPYL ALCOHOL	Acute EC50 4480000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 1000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 2950000 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 3800000 µg/l Marine water	Fish - Alburnus alburnus	96 hours

### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
N-PROPYL ALCOHOL	0.2		low

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

<b>Disposal methods</b>	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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## Section 14. Transport information

This product is not regulated for carriage according to ADR/RID, AON, IMDG, ICAO/IATA.

## Section 15. Regulatory information

### United States

#### U.S. Federal regulations

**TSCA 8(a) PAIR:** 5, 12-dihydroquino [2,3-b]acridine-7,14-dione  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** Not determined.  
**Commerce control list precursor:** 2, 2', 2"-nitrotriethanol  
**SARA 302/304:** No products were found.  
**SARA 311/312 Hazards identification:** Immediate (acute) health hazard  
**Clean Water Act (CWA) 311:** ammonia; ammonia

**Clean Air Act (CAA) 112 accidental release prevention:** No products were found.

#### State regulations

**Connecticut Carcinogen Reporting:** None of the components are listed.  
**Connecticut Hazardous Material Survey:** None of the components are listed.  
**Florida substances:** None of the components are listed.  
**Illinois Chemical Safety Act:** None of the components are listed.  
**Illinois Toxic Substances Disclosure to Employee Act:** None of the components are listed.  
**Louisiana Reporting:** None of the components are listed.  
**Louisiana Spill:** None of the components are listed.  
**Massachusetts Spill:** None of the components are listed.  
**Massachusetts Substances:** The following components are listed: AMMONIUM

## Section 15. Regulatory information

HYDROXIDE; AMMONIUM WATER; PROPYL ALCOHOL; PROPANOL  
 Michigan Critical Material: None of the components are listed. Minnesota  
 Hazardous Substances: None of the components are listed.  
 New Jersey Hazardous Substances: The following components are listed:  
 AMMONIUM HYDROXIDE; PROPYLENE GLYCOL; 1, 2-PROPANEDIOL; PROPYL  
 ALCOHOL; 1-PROPANOL  
 New Jersey Spill: None of the components are listed.  
 New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.  
 New York Acutely Hazardous Substances: The following components are listed:  
 Ammonium hydroxide  
 New York Toxic Chemical Release Repo rating: None of the components are listed.  
 Pennsylvania RTK Hazardous Substances: The following components are listed:  
 AMMONIUM HYDROXIDE; 1, 2-PROPANEDIOL; 1-PROPANOL  
 Rhode Island Hazardous Substances: None of the components are listed.

### California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

### Canada

Hazardous ingredients (Canada)	%	CAS number
PROPYLENE GLYCOL	5 - 10	57-55-6
N-PROPYL ALCOHOL	1 - 5	71-23-8

WHMIS (Canada)

Class D-2B: Material causing other toxic effects (Toxic). CEPA

Canadian lists

Toxic substances: None of the components are listed.

Canadian ARET: None of the components are listed.

Canadian NPRI: The following components are listed: Ammonia (total); n-propyl alcohol

Alberta Designated Substances: None of the components are listed.

Ontario Designated Substances: None of the components are listed.

Quebec Designated Substances: None of the components are listed.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. See Section 11 for more detailed information on health effects and symptoms.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



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## Section 16. Other information

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Date of previous issue

No previous validation

(7 Indicates information that has changed from previously issued version.)

### Notice to reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

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