

**SAFETY DATA SHEET**


**SECTION 1: IDENTIFICATION**

<b>Product Identifier</b>	
Product Name	BRILLIANT BLUE INK
Chemical Name	Not Available
Identifying Code	2409
<b>Recommended Use</b>	
Recommended Use	marking meat carcasses
<b>Details of Manufacturer</b>	
Company Name	PSC Trading Pty Ltd
Address	2/33 Henry Wilson Drive, Rosebud VIC 3939
Telephone	03 9005 6488
Website	Not Available
Email	<a href="mailto:info@psctrading.com.au">info@psctrading.com.au</a>
<b>Emergency Telephone number</b>	
Poisons Information	13 11 26
Other emergency numbers	0403 040 174

**SECTION 2: HAZARD IDENTIFICATION**

Classification of the substance or mixture	FLAMMABLE LIQUIDS - Category 3
	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
	SPECIFIC TARGET ORGAN TOXICITY(SINGLE EXPOSURE) (Narcotic effects) - Category 3

**ETHANOL SOLUTION**

<b>Label Elements</b>	
GHS label elements	
Hazard pictograms	
SIGNAL WORD	<b>DANGER</b>
Hazard statements	Flammable liquid and vapour Harmful by inhalation and if swallowed Causes eye and skin irritation May cause drowsiness or dizziness
Other hazards	<b>P102 Keep out of reach of children, P103 Read label before use</b>
Precautionary statements	Wear protective gloves. Wear eye or face protection: Recommended: Safety glasses Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Prevention	Use explosion proof electrical, ventilating, lighting and all material handling equipment. Use non sparking tools Take precautionary measures against static discharge. Keep container tightly closed, use in well ventilated area. Avoid breathing vapour. Wash hands thoroughly after handling.
Response	IF INHALED: Remove victim to fresh air, call POISON CENTRE or doctor IF ON SKIN(or hair) take off contaminated clothing. Rinse skin with water/shower IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses carefully.
Storage	Store locked up. Store in well ventilated place. Keep cool
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.

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

Substances		Mixture
CAS No	% (weight)	Chemical
3844-45-9	<2	Brilliant Blue CI42090
64-17-5	15-20	ethanol
	40-60	water
	20-25	sugar

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 first aid measures

<b>Eye Contact</b>	<p>If this product comes in contact with eyes:</p> <ul style="list-style-type: none"> <li>▶ Wash out immediately with water</li> <li>▶ If irritation continues, seek medical advice</li> <li>▶ Removing contact lenses after an eye injury should only be undertaken by skilled personnel</li> </ul>
<b>Skin Contact</b>	<p>If skin or hair contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Flush skin and hair with running water (and soap if available)</li> <li>▶ Seek medical attention in event of irritation</li> <li>▶ Wash contaminated clothing before re-use</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>▶ Move to fresh air</li> <li>▶ Provide artificial respiration if not breathing or irregular</li> <li>▶ If breathing difficulties seek medical attention</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>▶ Rinse mouth with water</li> <li>▶ Do not induce vomiting, if in doubt contact Poisons Information Centre or doctor</li> </ul>

#### Most important symptoms and effects, both acute and delayed:

Information found under Description of first aid measures and Indication of immediate medical attention and special treatment needed.

#### Indication of any immediate medical attention and special treatment needed:

Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient  
Contact poison treatment specialist immediately if large quantity ingested or inhaled

### SECTION 5: FIRE FIGHTING MEASURES

<b>Suitable extinguishing media</b>	▶ Use Dry Chemical, CO2(Carbon Dioxide) waterspray(fog) or foam
<b>Unsuitable extinguishing media</b>	▶ Do not use water jet
<b>Specific hazards</b>	<ul style="list-style-type: none"> <li>▶ Highly flammable liquid and vapour.</li> <li>▶ In a fire or if heated, a pressure increase will occur and container may burst, with risk of subsequent explosion.</li> <li>▶ Runoff to sewer may create fire or explosion hazard.</li> </ul>
<b>Hazardous thermal decomposition products</b>	▶ Decomposition products may include the following materials: carbon dioxide, carbon monoxide, dense black smoke

<b>Special protective actions for fire fighters</b>	<ul style="list-style-type: none"> <li>▶ Isolate scene, removing all non essential personnel.</li> <li>▶ No action shall be taken involving any personal risk or without suitable training.</li> </ul>
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	<ul style="list-style-type: none"> <li>▶ Move containers from fire area if this can be done without risk</li> <li>▶ Cool fire exposed containers with water spray</li> <li>▶ Prevent run off from fire fighting to enter drains or water courses</li> </ul>
<b>Special protective equipment for fire fighters</b>	<ul style="list-style-type: none"> <li>▶ Wear appropriate protective equipment and gloves</li> <li>▶ Wear self contained breathing apparatus with full face-piece operated in positive pressure mode.</li> </ul>
<b>Hazchem Code</b>	2YE

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	<ul style="list-style-type: none"> <li>▶ No action shall be taken involving any personal risk or without suitable training</li> <li>▶ Evacuate surrounding areas.Keep unnecessary and unprotected personnel from entering</li> <li>▶ Do not touch or walk through spilled material</li> <li>▶ Shut off all ignition sources.No flares, smoking or flames in hazard area</li> <li>▶ Do not breathe vapour or mist. Provide adequate ventilation</li> </ul>
<b>For emergency responders</b>	▶ If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also information in "For non-emergency personnel"
<b>Environmental precautions</b>	<ul style="list-style-type: none"> <li>▶ Avoid dispersal of spilled material and runoff and contact with soil,waterways,drains and sewers.</li> <li>▶ Inform the relevent authorities if product has caused environmental pollution(sewers, waterways, soil or air)</li> </ul>

#### Methods and materials for containment and cleaning up

<b>Minor Spills</b>	<ul style="list-style-type: none"> <li>▶ Clean up all spills immediately</li> <li>▶ Stop leak if without risk, move containers from spill area, absorb with inert dry material eg sand,sawdust,earth</li> <li>▶ Use spark proof tools and explosion proof equipment.</li> <li>▶ Place spillage and cleaning media in a container for disposal with licensed waste disposal contractor</li> </ul>
<b>Major Spills</b>	<ul style="list-style-type: none"> <li>▶ Stop leak if without risk. Move containers from spill area</li> <li>▶ Evacuate personnel to safe area. Ventilate.Approach spill from upwind direction.</li> <li>▶ Use spark proof tools and explosion proof equipment.</li> <li>▶ Prevent spillage from entering drains, sewers, water course, basements or confined areas.</li> <li>▶ Contain and collect spill with non-combustible absorbent material eg sand,sawdust,earth</li> <li>▶ Contaminated absobent material may pose the same hazard as spilled product.</li> <li>▶ Pick up and transfer to properly labelled containers.For disposal see Section 13</li> </ul>

### SECTION 7: HANDLING AND STORAGE

#### Precautions for safe handling

<b>Safe Handling</b>	<ul style="list-style-type: none"> <li>▶ Wear protective clothing when risk of exposure occurs.Avoid contact with eyes and skin</li> <li>▶ Use in a well-ventilated area, do not breathe vapour or mist</li> <li>▶ Wash thoroughly after handling</li> <li>▶ When handling do not eat,drink or smoke</li> <li>▶ Keep containers securely sealed when not in use</li> <li>▶ Do not store in unlabelled containers</li> <li>▶ Store and use away from heat, sparks open flame or other ignition source</li> <li>▶ Use explosion proof electrical (ventilating, lighting and material handling) equipment</li> <li>▶ Use only non sparking tools</li> <li>▶ Take precautionary measures against electrostatic discharges</li> <li>▶ Empty containers retain product residue and can be hazardous. Do not reuse container.</li> </ul>
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#### Conditions for safe storage

	▶ Store in accordance with local regulations
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<b>Conditions for safe storage</b>	<ul style="list-style-type: none"> <li>▶ Store in segregated and approved area</li> <li>▶ Store in original container protected from direct sunlight, in a cool, dry, well-ventilated area.</li> <li>▶ Store away from incompatible materials and foodstuff containers. Store locked up</li> <li>▶ Eliminate all ignition sources, separate from oxidizing materials</li> <li>▶ Keep containers securely sealed when not in use, opened containers must be resealed and stored upright</li> <li>▶ Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination</li> </ul>
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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

Component	Exposure limits
ethanol	<b>Safe work Australia (Australia, 1/2014)</b> TWA :1880 mg/m <sup>3</sup> 8 hours TWA :1000 ppm 8 hours

### Exposure controls

<b>Engineering Controls</b>	<ul style="list-style-type: none"> <li>▶ Use only in area provided with adequate ventilation</li> <li>▶ Use process enclosures, local exhaust ventilation sufficient to control worker exposure to airborne contaminants</li> <li>▶ Engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits</li> <li>▶ Use explosion proof ventilation equipment</li> </ul>
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### Personal Protective equipment

<b>Eye Protection</b>	<ul style="list-style-type: none"> <li>▶ Wear Safety glasses with side shields complying with an approved standard</li> <li>▶ Chemical goggles</li> </ul>
<b>Hand Protection</b>	<ul style="list-style-type: none"> <li>▶ Wear gloves with chemical resistance. Neoprene, PVC, Butyl rubber</li> <li>▶ Gloves should be examined for wear and degradation constantly</li> </ul>
<b>Skin Protection</b>	<ul style="list-style-type: none"> <li>▶ Lightweight protective clothing when handling small quantities OTHERWISE wear suitable protective clothing eg. Overalls, appropriate footwear, barrier cream</li> <li>▶ For protection from static discharges clothing should include anti static overalls, boots and gloves</li> </ul>
<b>Respiratory Protection</b>	<ul style="list-style-type: none"> <li>▶ Select Respirator based on potential hazard that meets appropriate standard or certification</li> <li>▶ Respirators must be used according to respiratory protection program, ensure fitting and training in use</li> </ul>

### Hygiene measures

<b>Hygiene measures</b>	<ul style="list-style-type: none"> <li>▶ Wash hands before breaks and immediately after handling the product</li> <li>▶ Wash before eating, smoking, and using the toilet and at the end of the working day</li> <li>▶ Wash contaminated clothing before re-use</li> <li>▶ Ensure eyewash station and safety showers are close to work area</li> </ul>
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	unit of measure	
Physical state		liquid
Colour		blue
Odour		ethanol odour
Odour Threshold		Not Available
pH		Not Available
Melting point/range	(°C)	Not Available
Freezing point	(°C)	0
Boiling point/range	(°C)	78 to 102°C
Flash point	(°C)	36°C
Evaporation rate	Butyl acetate=1	Not Available
Flammability(solid,gas)		Not Available
Lower explosion limit	(%)	Not Available

Upper explosion limit	(%)	Not Available
Vapour Pressure	kPa	Not Available
Relative Vapour Density	air = 1	Not Available
Relative Density	water = 1	Not Available
Water solubility		Soluble
Partition coefficient	n-octanol/water	Not Available
Auto-ignition temperature	(°C)	Not Available
Decomposition temp	(°C)	Not Available
Viscosity		Not Available

### SECTION 10: STABILITY AND REACTIVITY

Reactivity	▶ No data available
Chemical stability	▶ Stable under recommended storage conditions
Possibility of hazardous reactions	▶ Under normal storage conditions and use, hazardous reactions will not occur
Conditions to avoid	▶ Avoid all sources of ignition(spark or flame). Do not pressurize,cut,weld,braze,solder,drill,grind or expose to heat
Incompatible Materials	▶ Reactive or incompatible with oxidizing materials
Hazardous decomposition products	▶ Under normal conditions of storage and use, hazardous decomposition products should not be produced

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

##### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	LD 50 Inhalation Vapour	Rat	38mg/l	10 hours
	LD50 Oral	Rat	7060mg/kg	-

##### Sensitization

Not available

##### Mutagenicity

Not available

##### Carcinogenicity

Not available

##### Reproductive toxicity

Not available

##### Teratogenicity

Not available

##### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Not available			

##### Specific target organ toxicity (repeated exposure)

Not available

##### Aspiration hazard

Not available

Information on the likely routes of exposure : Not available

**Potential acute health effects**

- Eye contact** : Causes serious eye damage
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness
- Skin contact** : Causes skin irritation
- Ingestion** : Can cause central nervous system (CNS) depression

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

- Eye contact** : Adverse symptoms may include the following
  - pain
  - watering
  - redness
- Inhalation** : Adverse symptoms may include the following
  - nausea or vomiting
  - headache
  - drowsiness/fatigue
  - dizziness/vertigo
  - unconsciousness
- Skin contact** : Adverse symptoms may include the following
  - pain or irritation
  - redness
- Ingestion** : Adverse symptoms may include the following
  - stomach pains

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure:**

- Potential immediate effects** : Not available
- Potential delayed effects** : Not available

**Long Term exposure:**

- Potential immediate effects** : Not available
- Potential delayed effects** : Not available

**Potential chronic health effects** : Not available

- General** : No known significant effects or critical hazards
- Carcinogenicity** : No known significant effects or critical hazards
- Mutagenicity** : No known significant effects or critical hazards
- Teratogenicity** : No known significant effects or critical hazards
- Developmental effects** : No known significant effects or critical hazards
- Fertility effects** : No known significant effects or critical hazards

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## SECTION 12: ECOLOGICAL INFORMATION

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**Toxicity**

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 1000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000 µg/l Fresh water	Fish - Golden ide	48 hours

**Persistence and degradability**

Biodegradable

Product/ingredient name	LogPow	BCF	Potential
ethanol		-	low

**Mobility in soil**

Soil/water partition coefficient (Koc) : Not available




**Other adverse effects**

: No Known significant effects or critical hazards

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Disposal method</b>	<ul style="list-style-type: none"> <li>▶ In accordance with local council, state environmental authority and national regulations</li> <li>▶ Discharging waste into drains, sewers and waterways is forbidden</li> </ul>
<b>Contaminated packaging</b>	▶ Recycle as first consideration, landfill or incineration when recycling not possible

## SECTION 14: TRANSPORT INFORMATION

	ADG Code Transport by road and rail	Marine Transport (IMO/IMDG)	Air Transport (ICAO/IATA)
<b>UN Number</b>	1170	1170	1170
<b>Proper Shipping Name</b>	ETHANOL SOLUTION	ETHANOL SOLUTION	ETHANOL SOLUTION
<b>Dangerous Goods Class</b>	3 	3 	3 
<b>Packing Group</b>	II	II	II
<b>Environmental Hazards</b>			
<b>Additional information</b>	Hazchem code: 2YE		
<b>Special precautions for user</b>	Transport within user's premises always transport in closed containers that are upright and secure. Ensure that persons transporting know what to do in the event of an accident or spillage		

## SECTION 15: REGULATORY INFORMATION

**Safety, Health and Environmental regulations/legislation specific for the substance or mixture:**

No known specific national and/or regional regulations applicable to this product (including ingredients)

<b>Standard Uniform Schedule of Medicines and Poisons</b>	Not regulated
<b>Model Work Health and Safety Regulations- Scheduled Substances</b>	No listed substance
<b>National Inventory (AICS)</b>	All of the components are listed or exempted
<b>New Zealand inventory of chemicals (NZIoC)</b>	All of the components are listed or exempted
<b>HSNO Group Standard</b>	Solvents
<b>HSNO Classification</b>	3.1 - FLAMMABLE LIQUIDS - Category B 6.1 - ACUTE TOXICITY (oral) - Category E 6.3 - SKIN IRRITATION - Category B 6.4 - EYE IRRITATION - Category A (Irritant)
<b>International Regulations: Chemical Weapon Convention List Schedules I, II &amp; III Chemicals - not listed</b>	
<b>Montreal Protocol</b>	Not listed

<b>Stockholm Convention on POP</b>	Not listed
<b>Rotterdam Convention on PIC</b>	Not listed
<b>UNECE Aarhus Protocol on POP</b>	Not listed
<b>International Lists - National Inventory</b>	
<b>Canada</b>	All components are listed or exempted
<b>China</b>	All components are listed or exempted
<b>Europe</b>	All components are listed or exempted
<b>Japan</b>	<b>Japan Inventory (ENCS)</b> All components are listed or exempted <b>Japan Inventory (ISHL)</b> Not determined
<b>Malaysia</b>	All components are listed or exempted
<b>New Zealand</b>	All components are listed or exempted
<b>Philippines</b>	All components are listed or exempted
<b>Republic of Korea</b>	All components are listed or exempted
<b>Taiwan</b>	All components are listed or exempted
<b>Turkey</b>	All components are listed or exempted
<b>United States</b>	All components are listed or exempted

## SECTION 16: OTHER INFORMATION

<b>Issue date</b> 13/04/2017	<b>Abbreviations and acronyms:</b>	
<b>Revision date</b> 23/10/2019	<b>ADG</b>	Australian Dangerous Goods Code
<b>Version</b> 2.2	<b>GHS</b>	Globally Harmonised System
<b>Reason for revision</b> revise classification to category 3	<b>IATA</b>	International Air Transport Association
	<b>IMDG</b>	International Maritime Dangerous Goods
	<b>UN</b>	United Nations
	<b>AICS</b>	Australian Inventory of Chemical Substances
	<b>ICAO</b>	International Civil Aviation Organization
	<b>IMO</b>	Australian Inventory of Chemical Substances
	<b>POP</b>	Persistent Organic Pollutants
	<b>PIC</b>	Prior Informed Consent

Information provided in this Safety Data Sheet is correct to the best of our knowledge, data and belief at the date of publication. The information is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.