

## 117 - Stick Ink cartridge

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The following Datasheet is applicable for the following products:

Product Name	Product Code	Description	Colour	White board Marker Ink Colour	Writing Length ( M )	Tip Type
Fully Detectable Economy Pen Refills	117	Stainless bodied pen ink container	Stainless steel	Blue, Black, Red and Green	9,400 M	Ball point

## 1. Identification of the Substance

**Product Name** Stick ink refill

**Colour** Blue

## 2. Hazards Identification

- **Classification of the substance or mixture**

**GHS Classification in accordance with OSHA Hazard Communication Standards (29 CFR 1910.1200)**

Skin irritation (category 2)

Eye irritation (category 2)

- **GHS label elements**



Warning

### **Hazard statements**

**H315** Causes skin irritation.

**H319** Causes eye irritation.

### **Precautionary statements**

**P264** Wash thoroughly after handling.

**P280** Wear protective gloves, eye protection and face protection.

### **Response precautionary statements**

**P302+352:** If on skin Wash with soap and water.

**P333+313: If skin irritation or rash occurs** Get medical advice or attention.

**P362** Take off contaminated clothing and wash before reuse.

**P305+P351+P338:** If in eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing.

**P310** Immediately call a poison center or doctor/physician.

**Storage precautionary statements**

None

**Disposal precautionary statements**

None

**Description of any hazards not otherwise classified**

No information available

### 3. Composition/Information on Ingredients

- Chemical characterization**

**Composition**

<b>Ingredient</b>	<b>CAS No</b>	<b>Concentration (%)</b>
Propane-1,2-diol	57-55-6	26.00%
2-phenoxy ethanol	122-996	20.00%
Epoxy resin	24969-06-0	14.00%
Solvent blue 38	1328-51-4	0.12%
Benzyl alcohol	100-51-6	10.00%
BX	147-14-8	8.00%
Solvent violet 8	52080-58-7	0.05%
Triethanolamine	102-71-6	5.00%

### 4. First Aid Measures

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation occurs and persists, contact a doctor.

**Skin contact** Remove and isolate contaminated clothing and shoes. Wash off with soap and plenty of water. If irritation occurs and persists, contact a doctor.

**Inhalation** Move to fresh air. Administer oxygen if breathing is difficult. Get medical attention.

**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention immediately.

**Advice to doctor** Treat symptomatically.

### 5. Firefighting Advice

**Flammability of the product**

Combustible

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media**

None known.

**Special hazards arising from the substance or mixture**

Decomposition products formed under fire conditions – carbon oxides, etc.

**Advice for firefighters**

Wear self-contained breathing apparatus and standard firefighting equipment for firefighting if necessary.

## 6. Accidental Release Measures

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

Use personal protective equipment. Avoid breathing vapours, mist or gas. Avoid contact with skin and eyes. Remove all sources of ignition. For personal protection see section 8.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and material for containment and cleaning up**

Contain spillage and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

## 7. Handling and Storage

**Handling****Advice on safe handling**

Use in well-ventilated condition. Keep away from sources of ignition – no smoking, take measure to prevent the build up of electrostatic charge. See section 2 for more precautions.

**Storage****Requirements for storage**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure Controls/Personal Protection

### Exposure limits

Not established

### Engineering controls

Provide appropriate exhaust ventilation. Provide safe shower and eye wash fountain.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Eye protection

Use equipment for eye protection if liquid in-eye risk exists.

#### Body protection

Complete suit protecting against chemicals.

#### Hand protection

Handle with chemicalresistant gloves.

#### Other protections

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. Physical and Chemical Properties

### General information

**Form** Liquid

**Odour** Weak odour

**Ph** N/A

**Melting pint/range** N/A

**Boiling point/range** N/A

**Percent volaility** N/A

**Flash point** >60°C -close up

**Density** N/A

**Vapor pressure** N/A

**Vapor density** N/A

**Evaporation rate and reference** N/A

**Solubility in water** Partly soluble in water

**Explosion limits in air - upper** N/A

**Explosion limits in air - lower** N/A

## 10. Stability and Reactivity

### Stability

Stable under normal temperature and pressure.

### Hazardous reactions

None hazardous reactions known.

### Incompatibility (materials to avoid)

Strong oxidizing materials.

### Conditions to avoid

Keep away from open flames, hot surfaces, sources of ignition.

### Hazardous decomposition and/or combustion products

Other decomposition products – no data available. In the event of fire, see section 5.

## 11. Toxicological Information

### Acute toxicity

No information available.

### Skin corrosion/irritation

No known significant effects or harm.

### Serious eye damage/irritation

Causes serious eye damage.

### Respiratory sensitization

No sensitizing effects known.

### Skin sensitization

May cause an allergic skin reaction.

**Carinogenicity**

No known significant effects or harm.

**Germ cell mutagenicity**

No known significant effects or harm.

**Reproductive toxicity**

No known significant effects or harm.

**STOT-single exposure**

No known significant effects or harm.

**STOT repeated exposure**

No known significant effects or harm.

**Aspiration hazard**

No known significant effects or harm.

**Potential health effects****Inhalation**

May cause respiratory irritation if inhaling concentrated vapor.

**Skin contact**

May cause an allergic skin reaction

**Eye contact**

Causes serious eye damage.

**Ingestion**

May be harmful if ingested.

## 12. Ecological Information

**Ecotoxicity**

No data available.

**Bioaccumulative potential**

No data available.

**Persistence and degradability**

No data available.

**Results of PBT and vPvB assessment**

PBT: not applicable.

vPvB: not applicable.

**Other adverse effects**

May be harmful to aquatic environment. Do not release to drains and water source without the permission of government.

## 13. Disposal Considerations

**Safe handling and methods of disposal**

Recycle if possible. Observe all federal, state and local environmental regulations. Offer surplus and non-recyclable products to a licensed disposal company.

## 14. Transport Information

**ADR/RID information****ADR-UN number**

Not classified for transport.

**ADR class**

Not classified for transport.

**ADR shipping name**

Not classified for transport.

**ADR packing group**

Not classified for transport.

**IATA/ICAO information****IATA UN number**

Not classified for transport.



**IATA class**

Not classified for transport.

**IATA shipping name**

Not classified for transport.

**IATA label**

None

**IATA packing group**

Not classified for transport.

**IATA S.P**

None

**IATA ERG**

None

**IMO/IMDG information****IMDG marine pollutant**

No

**IMDG UN number**

Not classified for transport.

**IMDG class**

Not classified for transport.

**IMDG shipping name**

Not classified for transport.

**IMDG packing group**

Not classified for transport.

**IMDG storage category**

Not classified for transport.

## 15. Regulatory Information

### International regulations

#### US regulations: TSCA

All of components are listed on the TSCA inventory.

#### USA SARA

##### SARA 302 components

##### SARA 302

No chemical in this material are subject to the reporting requirements of SARA title III section 302.

##### SARA 313 components (specific toxic chemical listings)

##### SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA title III, section 313.

## 16. Other Information

#### Abbreviations

**CAS#** Chemical Abstract Service number – used to uniquely identify chemical compounds.

**pH** Relates to hydrogen ion concentration – this value will relate to a scale of 0 – 14, where 0 is highly acidic and 14 is highly alkaline.

**OSHA** Occupational Safety and Health Administration.

**NTP** National Toxicology Program.

**IARC** International Agency for Research on Cancer.

**ACGIH** The American Conference of Governmental Industrial Hygienists.

**ADR** Agreement on Dangerous Goods by Road.

**RID** Regulations Concerning the International Carriage of Dangerous Goods by Rail.

**ICAO** International Civil Aviation Organization.

**IMDG** International Maritime Dangerous Goods.

**IMO** International Marine Organization.

#### Further information

This safety data sheet was prepared in accordance with UN GHS Rev.7 and OSHA Hazard Communication Standards (29 CFR 1910.1200).

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Refill Test Report

1. Name: 1.0 metal tube refill

2. Customer:

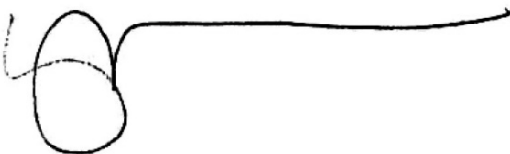
3. Test item: writing length

4. Test condition: Temperature 20 degree, Relative humidity 50%, writing pressure 150g, writing angle: 70 degree, ISO 12757 writing paper, writing speed, 4.5m/min

5. Test machine: Electronic balance scale, circle writing machine

Color Item	blue					black				
	1	2	3	4	5	6	7	8	9	10
Length(M)	760	820	815	793	850	782	810	832	851	885

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