



- P233 : Keep container tightly closed.  
 P240 : Ground and bond container and receiving equipment.  
 P241 : Use explosion-proof equipment.  
 P242 : Use non-sparking tools.  
 P243 : Take action to prevent static discharges.  
 P261 : Avoid breathing mist/vapours.  
 P271 : Use only outdoors or in a well-ventilated area.  
 P280 : Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

- P303+P361+P353 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P304+P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 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 doctor.  
 P312 : Call a POISON CENTER/doctor, if you feel unwell.  
 P370+P378 : In case of fire: Use water spray, foam, dry, chemical powder or carbon dioxide to extinguish.

**Storage**

- P403+P233 : Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235 : Store in well-ventilated place. Keep cool.  
 P405 : Store locked up.

**Disposal**

- P501 : Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards : None

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance or mixture : Mixture

Ingredients and composition

Ingredients	CAS Number	Weight %	Component
Ethanol	64-17-5	68	SCA-L
1-(or 2-)Ethoxypropan-2-ol	1569-02-4	10	SCA-L
Benzyl alcohol	100-51-6	3.0	SCA-L
Blue dye	Non Public	7.5	SCA-L

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### 4. FIRST AID MEASURES

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#### 4.1. Description of first aid measures

- Inhalation : Remove subject to ventilated fresh air. Consult physician if necessary.  
 Ingestion : Refer for medical attention.  
 Skin contact : Wash the affected area under tepid running water using a mild soap.

~~And refer for medical attention if irritation continues.~~

Eye contact : Gently rinse the affected eyes with clean water for at least 15 minutes.  
And refer for medical attention if irritation continues.

First aid facilities : Ensure eyewash and water service are available.

4.2. Most important symptoms and effects, both acute and delayed

Ink contact with skin may cause irritation, swelling or redness.

4.3. Indication of any immediate medical attention and special treatment needed

In case of skin or eye contamination treat as under First Aid Measures.

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## 5. FIRE-FIGHTING MEASURES

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5.1. Suitable extinguishing media

: In case of fire, use water spray, foam, dry, chemical powder or carbon dioxide.

5.2. Specific hazards arising from the substance or mixture

: CO<sub>2</sub>, CO, NO<sub>x</sub>, and SO<sub>x</sub>, is produced after combustion.

5.3. Special protective equipment and precautions for fire-fighters

: None

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## 6. ACCIDENTAL RELEASE MEASURES

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6.1. Personal precautions, protective equipment and emergency procedures

: Use proper ventilation. Use eye and skin protection.

6.2. Environmental precautions

: Do not dispose of waste to the sewer.

6.3. Methods and material for containment and cleaning up

: Absorb spill with material (cloth or paper), then place in a chemical waste containers.

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## 7. HANDLING AND STORAGE

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7.1. Precautions for safe handling

: Avoid rough handling or dropping.

Wear protective gloves/protective clothing/eye protection/face protection.

7.2. Conditions for safe storage, including any incompatibilities

: Store in a dry, cool, well-ventilated location, away from possible all source of ignition.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1. Control parameters

Occupational exposure limits

Component	Threshold limit values
	ACGIH
Ethanol	STEL 1,000 ppm

8.2. Appropriate engineering controls

: In the case of the handling of the room to install a closed reduction or local exhaust sources.

Electrical equipment to be used in handling the location could be explosion-proof structure, equipment is static electricity measures.

8.3. Individual protection measures, such as personal protective equipment.

: Wear protective gloves/protective clothing/eye protection/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

(a) Appearance	: Liquid [Color] Blue
(b) Odor	: Organic solvent odor
(c) Odor threshold	: No data
(d) pH	: Not applicable
(e) Melting point/freezing point	: -114.1 degrees Celsius (Ethanol)
(f) Initial boiling point/boiling range	: 78.5 degrees Celsius (Ethanol)
(g) Flash point	: 13 degrees Celsius (Ethanol)
(h) Evaporation rate	: No data
(i) Flammability (solid, gas)	: Flammable
(j) Upper/lower flammability or explosive limits	: LEL 3.3 vol%, UEL 19.0 vol% (Ethanol)
(k) Vapor pressure	: 5850 Pa (at 20 degrees Celsius, Ethanol)
(l) Vapor density	: 1.6 (Ethanol)
(m) Relative density	: 0.85-0.87 (at 20 degrees Celsius)
(n) Solubility	: Insoluble in water
(o) Partition coefficient: n-octanol/water	: -0.31 (log Pow, Ethanol)
(p) Auto-ignition temperature	: No data
(q) Decomposition temperature	: No data
(r) Viscosity	: 2.7-3.7 mPa·s (at 20 degrees Celsius)

9.2. Other information : None

## 10. STABILITY AND REACTIVITY

10.1. Reactivity	: This material is stable.
10.2. Chemical stability	: This material is stable.
10.3. Possibility of hazardous reactions	: This material is stable.
10.4. Conditions to avoid	: Direct sunshine, the high temperature and source of ignition.
10.5. Incompatible materials	: Strong oxidizing agents and reducing agents.
10.6. Hazardous decomposition products	: Heating can release vapors which can be ignited. : Burning produces obnoxious and toxic fumes, carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

There is no data available on the mixture itself.

### 11.1. Information on toxicological effects

Eye damage/irritation	: Blue dye	: Category 1
	: Ethanol	: Category 2B
	: 1-(or 2-)Ethoxypropane-2-ol	: Category 2B
	: Benzyl alcohol	: Category 2
Specific target organ toxicity (single exposure)	: Ethanol	: Category 3 (respiratory irritation/ narcotic effects)
	: 1-(or 2-)Ethoxypropan-2-ol	: Category 3 (narcotic effects)

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## 12. ECOLOGICAL INFORMATION

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There is no data available on the mixture itself.

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|-------------------------------------|---------------------|
| 12.1. Ecotoxicity                   | : No data available |
| 12.2. Persistence and degradability | : No data available |
| 12.3. Bioaccumulative potential     | : No data available |
| 12.4. Mobility in soil              | : No data available |
| 12.5. Other adverse effects         | : None              |

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## 13. DISPOSAL CONSIDERATIONS

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13.1. Waste treatment methods

- Follow all regulations in your country.

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## 14. TRANSPORT INFORMATION

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|---|---------------------------------------|
| 14.1. UN number   | : 1993                                |
| 14.2. UN proper shipping name   | : Flammable liquids, N.O.S. (Ethanol) |
| 14.3. Transport hazard class(es)  | : 3                                   |
| 14.4. Packing group   | : II                                  |
| 14.5. Environmental hazards   | : Not applicable                      |
| 14.6. Transport in bulk according to Annex II<br>of MARPOL 73/78 and the IBC Code | : Not applicable                      |
| 14.7. Special precautions for user  | : Not applicable                      |

The above mentioned information is for ink.

Finished marker pen itself is not regarded as hazardous goods.

Ink below 10 ml per pen is absorbed in polyester filter reservoir inside of the pen.

Applying to UN No.3175 is depending on ink filling volume (SCA-6600-L-A).

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## 15. REGULATORY INFORMATION

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Safety, health and environmental regulations/legislation specific for the substance or mixture

- Follow all regulations in your country.

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## 16. OTHER INFORMATION

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International GHS conformity.

The information here is given in good faith, but no warranty, express or implied, is made.

Final determination of suitability of any material is the sole responsibility of the user.

End of SDS