

MATERIAL SAFETY DATA SHEET

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1. Commercial Product name: 5 STAR PERMANENT MARKER BULLET TIP
CODE: 296077

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National Poisons Information Service (Birmingham Centre)
City Hospital 0344 892 0111 or NHS 111
+353 (0)1 809 2166 (Beaumont Hospital, Republic of Ireland only, 8am-10pm, 7 days a week)

2. Composition / Chemical characterization

Chemical name:	Compound
C.I. Number:	Solvent Black 27
CAS number:	64-17-5, 107-98-2
C.I. Number:	Basic Blue 7
CAS number:	64-17-5, 107-98-2
C.I. Number:	Red & Green (Unregistered)
CAS number:	64-17-5, 107-98-2

3. Hazard identification

May be irritating to respiratory tract, skin and eyes.

This product is not rapidly ignitable.
Use only with adequate ventilation.
Wash after handling.

4. First aid measures

Inhalation:	If inhaled, move to fresh air. Perform artificial respiration if necessary. Get medical attention immediately.
Eyes: of	Flush eye with flowing water until no evidence of chemical remains (at last 15 minutes) If irritation develops consult an oculist.
Skin:	Remove contaminated clothing and shoes immediately. Wash affected skin with soap and water. Get medical attention immediately.
Ingestion: vomiting.	If swallowed, dilute with water and induce vomiting. Get medical attention immediately. Never give anything by mouth to unconscious

person.

5. Fire fighting measures:

Fire and explosion hazard: Not application
Suitable extinguishing media: Not application

6. Accidental release measures

- Personal precautions: Clean up with the appropriate personal equipment (see Section 8)
- Environmental precautions: Scoop or sweep and transfer into a closed container. Keep waste out of sewers.
- Method for cleaning up: Scoop or sweep into a container for reuse or disposal. Keep unnecessary person away.

7. Handling and storage

Store in cool dry place, keep container tightly closed. Do not inhale the substance and avoid contact with the skin or eyes. Wear protective clothing when handling open containers; avoid environmental pollution by handling the product carefully. Wash after handling. Use only with adequate ventilation.

8. Exposure control / Personal Protection

- Respiratory Protection: Local exhaust ventilation
Air purifying respirator
- Hand Protection: Rubber gloves
- Eye Protection: Safety goggles
- Skin Protection: Impervious clothing

9. Physical & Chemical properties

- Appearance: Black, Blue & Red Ink. Uniform liquid
- Odor: Alcohol smelling
- pH: 3.0 ∞ 6.5 (25°C)
- Viscosity: 4.0 ∞ 7.0 cPs (25°C, 60rpm)
- Specific gravity: 0.80 ∞ 0.95
- Surface tension: 24.0 ∞ 30.0 dyne/cm (25°C)
- Boiling point: 98°C
- Melting point: -112°C
- Flash point: 20°C
- Solubility in water: Not soluble
- Vapor density: 1.8 (Air = 1)
- Vapor pressure: Not application
- Flammability: Not application
- Explosive properties: Not application
- Oxidizing properties: Not application

Appearance: Green. Uniform liquid
- Odor: Alcohol smelling
- pH: 4.5 ± 1.5
- Viscosity: 5.0-7.0 cPs
- Specific gravity: 0.85 ∞ 0.90
- Surface tension: 33 ∞ 36 mN/m

- Boiling point:	78°C
- Melting point:	Not application
- Flash point:	Not application
- Solubility in water:	Not soluble
- Vapor density:	0.63 (Air = 1)
- Vapor pressure:	Not application
- Flammability:	Not application
- Explosive properties:	Not application
- Oxidizing properties:	Not application

10. Stability & Reactivity

Stability and reactivity:	stable under normal condition of storage and use
Hazardous reaction:	none
Hazardous decomposition products:	none

11. Toxicological information

- Actual oral toxicity:	no data available
- Skin irritation:	no data available

12 Ecological information

Elimination:	no data available
Behavior in environmental compartments:	no data available
Eco toxic Reaction:	no data available
Bacteria toxicity:	no data available

13. Disposal considerations

Ensure that disposal is in compliance with local and national regulations.

14. Transport information

GGV IMDG CODE:	none
ICAO/ IATA [∞] DGR:	not restricted
UN No.:	not restricted
RID/ ADR:	none

15. Information of Regulations

no data available

16. Other information

THESE PRODUCTS MUST BE USED ONLY IN THE PROPER WAY FOR PROPER USE.
 THE INFORMATIONS CONTAINED IN THIS MSDS, AS OF THE ISSUE DATA, IS BELIEVED TO BE TRUE AND CORRECT. HOWEVER, THE ACCURACY OR COMPLETENESS OF THIS INFORMATION AND ANY RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT WARRANTY OR GUARANTEE. SINCE THE CONDITIONS OF USE ARE BEYOND THE CONTROL OF OUR COMPANY, IT IS THE RESPONSABILITY OF THE USER TO DETERMINE THE CONDITIONS OF SAFE USE OF THIS PRODUCT.