

MATERIAL SAFETY DATA SHEET

1. Commercial Product name: Orange permanent marker

School Specialty
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Recommended use: Ink

2. Composition / Chemical characterization

n-propyl alcohol	71-23-8	60.00%-70.00%
ethanol	64-17-5	30.00%-40.00%
Basic red 1	989-38-8	< 1.00%
Basic blue 7	2390-60-5	< 1.00%
Basic yellow 51	83949-75-1	< 2.50%

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: 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: 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 & 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

Stored 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:	Violet. Uniform liquid
- Odor:	Alcohol smelling
- pH:	
- Viscosity:	3.0 ~ 10.0 mpa.s
- Specific gravity:	
- Surface tension:	
- Boiling point:	
- Melting point:	
- Flash point:	
- Solubility in water:	Not soluble
- Vapor density:	
- 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: LD50(rat):	no data available
- Skin irritation/ rabbit /draize test:	no data available
- Irritation of Mucous/rabbit eyes/Draize test:	no data available

12 Ecological information

Elimination:	no data available
Behavior in environmental compartments:	no data available
Ecotoxix Reaction:	no data available
Bacteria toxicity:	no data available
Fish toxicity:	no data available

13. Disposal considerations

Ensure that disposal is in compliance with local, 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

no data available
