

# SAFETY DATA SHEET IN ACCORDANCE WITH 91/155/EEC

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## 1. IDENTIFICATION OF THE PREPARATION AND COMPANY

Product Name: **REYNOLDS CD marker ref.321 and PAPER MATE CD&DVD marker.**

Company: SANFORD Europe  
9-11 rue Christophe COLOMB  
75008 PARIS  
FRANCE

Phone: +33 (0)1 56 52 56 52      Telefax: +33 (0)1 56 52 56 50

Emergency Phone: +33 (0)1 56 52 56 52

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization:** *Solution of polyhydric alcohol, dyestuffs and additives.*

Substances presenting a health hazard within the meaning of the Dangerous Substances Directive 67/548/EEC :

Names	Wt. %	CAS N°.	EINECS N°.	Index N°.	Classification
1-methoxy-2-propanol	10-25	107-98-2	203-539-1	603-064-00-3	R10
Ethanol	50-100	64-17-5	200-578-6	603-002-00-5	F, R11

## 3. HAZARDS IDENTIFICATION OF THE PREPARATION

**Critical hazards to man:** None

**Critical hazards to environment:** None known

**Other information:** Although the ink is flammable, it is not considered to be a hazard due to the low fill volume (less than 5ml) present in the markers/pens

## 4. FIRST AID MEASURES

**General:** No adverse effects anticipated from normal use.

**Inhalation:** No adverse effects anticipated from normal use.

**Eye contact:** Wash with clear, tepid water. If irritation persists, obtain medical attention.

**Skin contact:** Wash with soap and water. Contact will temporarily dye skin

**Ingestion:** No adverse effects anticipated from normal use. The mouth may be cleansed with soap and water solution. If a large amount has been ingested (from several markers/pens), stomach lavage may be employed at the discretion of a physician.

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5. **FIRE-FIGHTING MEASURES**

**Extinguishing media:** Carbon dioxide, foam, dry chemical, water fog.

**Special protective equipment:** In fires involving large quantities of product, use self-contained breathing apparatus.

**Further information:** Contains flammable ethanol. Hazardous decomposition products may be produced in a fire situation. See section 10.

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6. **ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Not required

**Environmental precautions:** Not required

**Methods for cleaning up:** Wipe up with tissue, towel, etc.

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7. **HANDLING AND STORAGE**

**Handling:** Keep away from sources of ignition.

**Storage:** Avoid extreme heat. Keep cap on to prevent solvent evaporation.

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8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**VLE :** 5000 ppm(Ethanol ), 150 ppm (1-methoxy-2-propanol)

**VME :** 1000 ppm(Ethanol ), 100 ppm (1-methoxy-2-propanol)

**MAK :** 500 ppm(Ethanol ), 100 ppm (1-methoxy-2-propanol)

**8-Hours TWAs:** 1000 ppm(Ethanol ), 100 ppm (1-methoxy-2-propanol)

**Personal protective equipment:**

**Respiratory protection:** None required

**Hand protection:** None required

**Eye protection:** None required

**General safety and hygiene measures:** Product is non-hazardous when used as directed.

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9. **PHYSICAL AND CHEMICAL PROPERTIES**

	<i>value</i>	<i>unit</i>
<b>Physical state:</b>	Liquid	
<b>Colour:</b>	Various colours	
<b>Odour:</b>	Alcoholic odour	
<b>Flash point:</b>	> 14	°C
<b>Viscosity at 20°C:</b>	2.0 – 4.5	mPas
<b>Specific gravity at 20°C:</b>	~ 0.9	g/ml
<b>Lower explosion limit:</b>	1.7	vol %
<b>Upper explosion limit:</b>	15.0	vol %
<b>Ignition temperature:</b>	Not determined	
<b>Solubility in water:</b>	Partial soluble	
<b>Melting point:</b>	< 0	°C
<b>Boiling point:</b>	78	°C
<b>Vapor pressure at 20°C:</b>	43 - 44	mbar
<b>pH:</b>	4 - 8	
<b>%Volatiles:</b>	82-84	%

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10. **STABILITY AND REACTIVITY**

**Thermal decomposition:** No decomposition products under normal conditions.

**Substances to avoid:** None known.

**Hazardous reactions:** None known.

**Hazardous decomposition products:** Thermal degradation may produce oxides of carbon and nitrogen; hydrocarbons and derivatives. If large amounts of the product are involved, plastic may emit hazardous decomposition products.

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11. **TOXICOLOGICAL INFORMATION**

No adverse effects anticipated from normal use based on toxicity and the small amount of ink in each pen.

LD<sub>50</sub>/oral/rar (Ethanol) : >6g/kg ; LD<sub>50</sub>/inhalation/rar (Ethanol) : 20000 ppm/10 hour

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12. **ECOLOGICAL INFORMATION**

None available regarding this product.

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13. **DISPOSAL CONSIDERATIONS**

**Product:** Not considered to be a dangerous material. Dispose of in accordance to local regulations.

The 1991 Environmental Protection (Duty of Care) Regulations SI N° 2839 and amendments should be noted (UK).

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14. **TRANSPORT INFORMATION**

Not classified as hazardous under transport regulations.

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15. **REGULATORY INFORMATION**

**Labeling according to EEC Directives:**

Labelling is not required because pens are classified as "articles" under the Dangerous Preparations Directive and as such are exempt from the requirements of the Directive.

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16. **OTHER INFORMATION**

This information contained in the Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or results to be obtained from the use thereof.

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