

'SG' Ink- F5-Black

**COMPANY:** SIGNET PTY LTD  
**ADDRESS:** 56 INGLESTON ROAD, WAKERLEY, QLD, 4154  
**EMERGENCY TELEPHONE:** (07) 3364 2100 (8AM to 5PM)

# MATERIAL SAFETY DATA SHEET

## PRODUCT IDENTIFICATION

**Product Name** SG F-5 Black ink  
**Trade Names** Marking Ink  
**Other Names** Stress Grading Ink  
**Manufacturers Code** 12966

### **Use and method of Application:**

SG (STRESS GRADING) INK IS SPECIALLY PREPARED WATER BASED INK DEVELOPED FOR USE THROUGH AUTOMATIC STRESS GRADING MACHINES. THE INK IS DYE BASED, WATER SOLUBLE AND WILL NOT CLOG THE SPRAY NOZZLES. THE MACHINE CAN BE CLEANED BY FLUSHING WITH WATER. THE INK IS MODERATELY LIGHT FAST AND PRINT SHOULD BE PROTECTED FOR BEST PERFORMANCE.

## HAZARDS IDENTIFICATION

### **Statement of Hazardous Nature**

Classified as HAZARDOUS SUBSTANCE, DANGEROUS GOODS according to the criteria of NOHSC.

### **APPLICABLE RISK PHRASES**

R36 Irritating to eyes  
R38 Irritating to skin

### **APPLICABLE SAFETY PHRASES**

S2 Keep out of reach of children  
S24/25 Avoid contact with skin and eyes

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<b>COMPOSITION / INFORMATION ON INGREDIENTS</b>
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**Poisons Schedule** : exempt

**Ingredients:**

CHEMICAL ENTITY	CAS.NO	PROPORTION
Water	N/A	>60%
1,2,3 Propanetriol	56-81-5	10-30%
Additive	Various	<10%
Industrial biocide	N/A	<10%
Dyes	Various	<10%

<b>FIRST AID</b>
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- Inhaled:** Remove from contaminated area into fresh air, keep warm and rest. If respiration is difficult or breathing stopped apply resuscitation and consult physician.
- Eye:** Immediately Irrigate with copious quantities of water for at least 15 minutes. Check for physical damage and seek medical advice.
- Skin:** Immediately wash contaminated skin with soap and water. Remove contaminated clothing and Launder before reuse.
- Swallowed:** Give plenty of water or milk to drink to achieve effective dilution.

**Advice to Doctor: Treat symptomatically**

<b>FIRE FIGHTING MEASURES</b>
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**Extinguishing media:**

Foam, dry agents, CO<sub>2</sub> or water delivered as fine mist spray or fog

**Hazards from Combustion Products:**

If heated to decomposition may release CO<sub>x</sub> and complex hydrocarbons.

**Specific Hazard:**

Due to water content not considered flammable.

**Special fire fighting recommendations:**

Keep uninvolved containers cool with water spray.

Contain run-off for later collection and controlled disposal.

Protective clothing and self contained breathing apparatus should be used by firemen.

**HAZCHEM Code:** 2[Y]

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<b>ACCIDENTAL RELEASE MEASURES</b>
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**Spills and Disposal:**

Soak up with suitable chemical absorbent material and dispose of as per local authority regulations.

<b>HANDLING AND STORAGE</b>
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**Handling**

Avoid contact with skin. Avoid inhalation of vapours or mists. Use in well ventilated area away from all ignition sources.

**Conditions for safe storage**

Store in cool well ventilated dry area.

Store in tightly sealed original container. Do not repack in any other containers.

<b>EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
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**Most likely exposure will be accidental contact with skin.**

**Exposure Standards:**

**SUBSTANCE NAME:** 1, 2, 3 Propanetriol

**CAS Number:** 56-81-5

**Exposure Standard:**

TWA- 10 mg/m<sup>3</sup> (mist)

**Biological Limit Values:**

There is no biological limit values allocated.

**Engineering Controls:**

Provide adequate ventilation.

Ensure ventilation is adequate to maintain air concentrations below exposure standards.

**Personal Protection:**

Avoid eye and skin contact.

Wear safety glasses.

Wear protective clothing to avoid skin contact for example latex gloves.

<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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**Appearance:** Coloured low viscosity liquid.

**Odour:** Musty odour.

**pH:** Not Determined

**Vapour Pressure:** Not determined

**Vapour Density:** Not Determined

**Boiling Point (°C):** 100°C

**Freezing Point (°C):** Not Determined

**Solubility:** Not Determined

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**Specific Gravity:** 1.011-1.051 Kg/L  
**Flash Point (°C):** N/A  
**UEL / LEL in air:** Not Determined  
**Ignition Temperature:** Not Determined  
**% Volatile:** 97-99 %  
**Other Properties:**

**Flammability:**

Not considered to be flammable

**STABILITY AND REACTIVITY**

**Chemical Stability:** Stable under normal conditions of use.  
**Conditions to avoid:** Flames, sources of ignition and incompatibilities.  
**Incompatible materials:** reacts with oxidising agents, acids and alkalis.  
**Hazardous decomposition Products:** If heated to decomposition may release CO<sub>x</sub> and complex hydrocarbons.  
**Hazardous reactions:** Not determined

**TOXICOLOGICAL INFORMATION**

**Likely routes of exposure that may result in adverse health effects are accidental contact with skin and eyes:**

**ACUTE EFFECTS:**

**Eye:** Moderate irritant. Can be absorbed through eyes. Can produce transient injury.  
**Skin:** Slight irritant, may cause staining  
**Inhaled:** Not likely to occur  
**Swallowed:** Non-toxic

**Long Term Effects:** Prolonged or repeated skin exposure may lead to dermatitis through the defatting action of the solvent.

**No other adverse health effects are expected if the product is handled in accordance with the safety data sheet and the product label. Symptoms that may arise if the product is mishandled are:**

**CHRONIC EFFECTS:**

Prolonged or repeated skin exposure may lead to dermatitis through the drying action of the solvent.

**ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not determined.  
**Persistence / Degradability:** Not determined

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**Mobility:** Not determined

<b>DISPOSAL CONSIDERATIONS</b>
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Dispose of empty containers into a refuse bin for collection by local authority.

<b>TRANSPORT INFORMATION</b>
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U.N. Number	: 1210
UN Proper Shipping Name	: Printing Ink
Dangerous Goods Class	: 3
Subsidiary Risk	: N/A
Packaging Group	: III
Special Precautions for user	: transport as per regulations pertaining to UN 1210
Hazchem Code	: 2[Y]

<b>REGULATORY INFORMATION</b>
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All components of this product are listed on the Australian Inventory of Chemical Substances (AICS)

<b>OTHER INFORMATION</b>
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**References:**

**Raw Material supplier's Material Safety Data sheets.**

- 1. Australian Health Minister's Advisory Council, Standard for the Uniform scheduling of drugs and poisons, No.11, AGPS, Canberra, 1996**
- 2. National Occupational Health and Safety Commission, 'National Code of Practice for the Preparation of Material Safety Data Sheets' [NOHSC:2011(1994)], AGPS, Canberra, 1994**
- 3. National Occupational Health and Safety Commission, 'List of Designated Hazardous Substances' [NOHSC:10005(1994)], AGPS, Canberra, 1994**
- 4. National Occupational Health and Safety Commission, 'Exposure Standards for Atmospheric Contaminants in the Occupational Environment' [NOHSC:1003(1995)], AGPS, Canberra, 1995**
- 5. National Occupational Health and Safety Commission, 'Approved Criteria for Classifying Hazards' [NOHSC:2011(1994)], AGPS, Canberra, 1994**

**DATE OF REVISION:**

12/10/04

**Reason for issue:**

Routine review and alignment with NOHSC regulations.

**CONTACT:**

PAUL HUGHES

**Title:**

Manufacturing Manager – Colourpack

**Phone:**

(61) 7 3364 2100 (extension 2127)

**Prepared by:**

Luke Rutland

End of MSDS