

# MATERIAL SAFETY DATA SHEET

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PRODUCT: **Printing inks (Sheet-fed)**  
Product Code: Pantone Opaque White

Date : 15/03/2007

## 1. CHEMICAL PRODUCT AND IDENTIFICATION

**Name of product** : Pantone Opaque White  
**Company Name** : A.S.INK & CHEMICAL CO., LTD.  
**Address** : Room No.405 Woolim E-biz center, 16, Yangpyeongdong 3-Ga, Youngdeungpo-Ku, Seoul, Korea  
**Telephone** : 82-2-2164-8220/4  
**Fax** : 82-2-2164-8225  
**E-Mail** : [asink@asink.com](mailto:asink@asink.com)

## 2. COMPOSITION

	CAS No	Weight (%)
TiO <sub>2</sub>	13463-67-7	40 - 45
Modified Phenolic Resin	70955-45-2	25 - 30
Vegetable Oil	8001-26-1	15 - 20
Hydro Carbon Solvent	64742-55-8	3 - 5

## 3. HAZARD IDENTIFICATION

Low hazard

**Fire** - Do not expose to fire directly **Inhalation** - NA

The product is a compound/mixture of raw materials, the raw materials themselves do not have hazardous properties.

## 4. FIRST AID PROCEDURES

**Inhalation** : NA  
**Skin contact** : Wash with soap and water  
**Eye contact** : Flush out with soap and water. Then seek medical attention.  
**Ingestion** : The product does not induce vomiting, if vomiting occur spontaneously keep air fresh and seek medical attention  
**Others** : None

## 5. FIRE FIGHTING PROCEDURES

**Suitable extinguishing media** : Foam, water spray, CO<sub>2</sub>, Dry Chemicals  
**Unsuitable extinguishing media** : NA  
**Exposure hazard** : Do not expose to fire directly  
**Special equipment** : Do not use high pressure extinguishers or water jet.

## 6. ACCIDENTAL RELEASE PROCEDURES

**Precautions with respect to individuals** : Protective glasses, Protective gloves, Protective clothing  
**Precautions with respect to environment** : Avoid discharge into the environment stop leaks as soon as possible  
Clean up spillage immediately

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## 7. STORAGE AND HANDLING

**Storage:** Do not expose to fire directly

**Handling** : Use dry air to displace material removed from container  
Avoid eye and skin contact  
Local exhaust is recommended  
Ventilation by local or general exhaust

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## 8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

**Occupational** : None  
**Individual protection – hands** : Protective gloves  
**Individual protection – eyes** : Protective glasses  
**Individual protection – skin** : Protective clothing

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Paste  
**Odor** : A little smell  
**Acidity(acid value mg KOH/g)** : None  
**Viscosity** : High Viscosity Paste  
**Boiling point/interval** : 290 - 330 °C  
**Flash point** : 145 °C  
**Self information** : None  
**Explosive properties** : No  
**Vapor pressure** : None  
**Specific gravity** : < 1  
**Solubility in water 20 °C** : No  
**Volatile (at 25°C)** : None

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## 10. STABILITY AND REACTIVITY

**Stability** : Product is stable under normal conditions  
**Conditions to Avoid** : Heat, spark, open flames and other sources of ignition  
**Other know hazard**

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## 11. TOXICOLOGICAL INFORMATION

The toxicological properties have not been fully determined  
Can expected to be eye irritant.

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## 12. ECOLOGICAL INFORMATION

As this product is a non active material, no evaporation or air pollution during under normal conditions.

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## 13. DISPOSAL CONSIDERATIONS

The product may be disposed under controlled incineration and in agreement with local and national regulation.

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## 14. TRANSPORT REGULATIONS

**General information** : This product is not considered hazardous for transportation.  
**Land transport** : ADR/RID/GGVS/GGVE  
Class : - Number : - UN-No. : -  
**Sea transport** : IMDG/GGVSee  
Class : - UN-No. : - Packing group : -

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## 15. REGULATORY INFORMATION

Labeling according to the EEC Directive  
According to the EEC Directive 88/379 labeling is not required.  
R-phrases: S-phrases:  
Special labeling of certain preparations:  
National legislation/regulation:

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## 16. OTHER INFORMATION

None

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While the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which A.S. INK & CHEMICAL CO., LTD. assumes legal responsibility.

It does not imply that the information is complete or accurate in all cases and does not within the control of A.S. INK & CHEMICAL CO., LTD., it is user's obligation to determine the conditions of safe use of the product.