



## **MATERIAL SAFETY DATA SHEET**

### **4. FIRST AID MEASURES**

- INHALATION      Move to well ventilated place.  
See medical advice immediately.
- EYE                Immediately flush with plenty of water.  
See medical advice immediately.
- SKIN              Wipe off with dry cloth and wash with mild soap.  
See medical advice immediately.
- INGESTION       See medical advice immediately.
- PROTECTION TO FIRST – AIDERS  
No data available
- NOTE TO PHYSICIAN  
Treatment may vary with condition of victim and specifics of incident.

### **5. FIRE FIGHTING MEASURES**

- FLAMMABLE PROPERTIES  
Highly flammable
- EXTINGUISHING MEDIA  
Dry chemical powder, foam or carbon dioxide.
- FIRE FIGHTING INSTRUCTIONS  
Wear full fire-fighting turn-out gear and respiratory protection.

### **6. ACCIDENTAL RELEASE MEASURES**

- LAND SPILL      Wipe off with dry cloth.
- WATER SPILL     Contain spilled liquid with sand or earth.  
Do not use combustible materials,such as sawdust.

### **7. HANDLING AND STORAGE**

- HANDLING :      Use only in the well-ventilated areas.  
Avoid contact with skin or eyes , or clothing.  
Avoid inhalation and ingestion.  
Avoid high temp. and fire.  
Wash thoroughly after handling.
- STORAGE :        Store in a cool, dry, well-ventilated location.  
Keep away from heat, sunlight.  
Keep away from children.

**MATERIAL SAFETY DATA SHEET****8. EXPOSURE CONTROLS / PERSONAL PROTECTION****EXPOSURE LIMIT VALUES****OSHA PEL (1994)**[Carbon black]  
[Titanium oxide]TWA 3.5 mg/m<sup>3</sup>  
TWA 15 mg/m<sup>3</sup> (total dust)**ACGIH TLV (2003)**[Carbon black]  
[Titanium oxide]TWA 3.5 mg/m<sup>3</sup>  
TWA 10 mg/m<sup>3</sup>**EN LIMIT (2000/39/EN)**

Not established

**EXPOSURE CONTROLS****Occupational Exposure Controls****Engineering Controls**

Use exhaust ventilation to keep airborne concentration below exposure limits.

**Personal Protection****Respiratory Protection**

Use with local exhaust ventilation, when in long use.

**Hand Protection**

Not required, but wear safety gloves, if necessary.

**Eye Protection**

Not required, but wear safety glasses, if necessary.

**Skin Protection**

To prevent ANY contact, wear impervious clothing such as gloves, apron, as appropriate.

**Environmental Exposure Controls**

Not established

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance****Physical state**

Liquid

**Odor**

minor solvent odor

**Boiling Point / Boiling Range**

No data available

**Flash Point**

17°C &lt;Close Cup&gt;

**Explosive Properties**

No data available

**Relative Density (g/cm<sup>3</sup>)**

(White ) 1.2~1.3 ( Other colors ) 0.8~1.0

**Solubility [ Water ]**

Insoluble

**MATERIAL SAFETY DATA SHEET****10. STABILITY AND REACTIVITY**

CONDITIONS TO AVOID	No data available
STABILITY	No data available
MATERIALS TO AVOID	No data available
HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS	No data available

**11. TOXICOLOGICAL INFORMATION**

Acute Toxicity (RTECS : 2004-11)

[Carbon black]

Oral	LD <sub>50</sub> (rat)	> 15,400 mg/kg
Skin	LD <sub>50</sub> (rabbit)	> 3 mg/kg

[Titanium oxide]

Oral	TDL <sub>0</sub> (rat)	60 mg/kg
Inhalation	TCL <sub>0</sub> (rat)	50 mg/ m <sup>3</sup> /6H/13W-I

**12. ECOLOGICAL INFORMATION**

ECOTOXICITY	No data available
BIOACCUMULATIVE POTENTIAL	No data available
OTHER ADVERSE EFFECTS	No data available

**13. DISPOSAL CONSIDERATIONS**

Comply with all federal,state,EU,national and local regulations.

Do not dump this product into sewers , on the ground or into any body of water.**14. TRANSPORT INFORMATION**

UN CLASS	3
UN Packing Group (PG)	II
UN NUMBER	1210
Proper Shipping Name	Printing ink, flammable

**MATERIAL SAFETY DATA SHEET****15. REGULATORY INFORMATION**

Refer to any other federal , state , EU , national and local regulations.

OSHA STATUS : This product is hazardous under 29 CFR 1910.1200.

TSCA STATUS : All components on TSCA INVENTORY.

CERCLA REPORTABLE QUANTITY (40 CFR 117,302) :  
Not applicable

SARA TITLE III: Not applicable

This product is classified as follows ,

Symbol : F ( Highly Flammable)

Risk Phrase : 11 ( Highly flammable)

Safety Advice : 2 ( Keep out of the reach of children.)  
9 ( Keep container in a well-ventilated place.)

Please refer to any other EU, national and local measures.

**16. OTHER INFORMATION**

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