

3. HAZARDS IDENTIFICATION

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/m³
TWA 15 mg/m³ (total dust)

ACGIH TLV (2003)

[Carbon black]
[Titanium oxide]TWA 3.5 mg/m³
TWA 10 mg/m³

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 <Close Cup>

Explosive Properties

No data available

Relative Density (g/cm³)

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

[Titanium oxide]

Oral	TDL ₀ (rat)	60 mg/kg
Inhalation	TCL ₀ (rat)	50 mg/ m ³ /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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