

No data available

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.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

OSHA PEL (1994)

[Ethanol]	TWA 1,000 ppm (1,900mg/m ³)
[1-Propanol]	TWA 200 ppm (500mg/m ³)
[2-Propanol]	TWA 400 ppm (980mg/m ³)
[Carbon black]	TWA 3.5 mg/m ³

ACGIH TLV (2003)

[Ethanol]	TWA 1,000 ppm
[1-Propanol]	TWA 200 ppm (skin)
[2-Propanol]	TWA 400 ppm
[Carbon black]	TWA 3.5 mg/m ³

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	13
Explosive Properties	No data available
Relative Density (g/cm ³)	0.9 ~ 1.0 g/cm ³
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)

[Ethanol]			
	Oral	LD ₅₀ (rat)	7,060 mg/kg
	Inhalation	LC ₅₀ (rat)	20,000 ppm/10H
	Skin	LD ₅₀ (rabbit)	6,300 mg/kg
[1-Propanol]			
	Oral	LD ₅₀ (rat)	1,870 mg/kg
	Inhalation	LCL ₀ (rat)	4,000 ppm/4H
	Skin	LD ₅₀ (rabbit)	5,040 mg/kg
[2-Propanol]			
	Oral	LD ₅₀ (rat)	5,000 mg/kg
	Inhalation	LC ₅₀ (rat)	16,000 ppm/8H
	Skin	LD ₅₀ (rabbit)	12,800 mg/kg
[Carbon black]			
	Oral	LD ₅₀ (rat)	> 15,400 mg/kg
	Skin	LD ₅₀ (rabbit)	> 3 mg/kg

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)	
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 : Not applicable

This product is classified as follows ,

[Ethanol] :	[F]	R:11	S; (2-)7-16
[1-Propanol] :	[F,Xi]	R:11-41-67	S: (2-)7-16-24-26-39
[2-Propanol] :	[F,Xi]	R:11-36-67	S: (2-)7-16-24/25-26

Symbol :	F	(Highly Flammable)
	Xi	(Irritant)
Risk Phrase :	11	(Highly flammable)
	36	(Irritating to eyes)
	41	(Risk of serious damage to eyes)
	67	(Vapours may cause drowsiness and dizziness.)
Safety Advice :	2	(Keep out of the reach of children.)
	7	(Keep container tightly closed.)
	16	(Keep away from sources of ignition – No smoking.)
	24	(Avoid contact with skin.)
	24/25	(Avoid contact with skin and eyes.)
	26	(In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.)
	39	(Wear eye/face protection.)

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

16. OTHER INFORMATION

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