

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)	[Ethanol]	TWA 1,000ppm (1,900mg/m ³)
	[1-Propanol]	TWA 200ppm (500mg/m ³)
ACGIH TLV (2003)	[Ethanol]	TWA 1,000ppm
	[1-Propanol]	TWA 200ppm(skin)
	[2-Propanol,1-methoxy-]	TWA 100ppm
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	16.5 °C
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	LC ₅₀ (rat)	4,000	ppm/4H
Skin	LD ₅₀ (rabbit)	5,040	mg/kg
[Propanoic acid,2-hydroxy-,ethyl ester]			
Oral	LD ₅₀ (rat)	>2,000	mg/kg
Inhalation	LC ₅₀ (rat)	>500	mg/ m ³
Skin	LD ₅₀ (rabbit)	>500	mg/kg
[Benzenemethanol]			
Oral	LD ₅₀ (rat)	1,230	mg/kg
Inhalation	LC ₅₀ (rat)	>500	mg/m ³
Skin	LD ₅₀ (rabbit)	2,000	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)	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 ,

[Ethanol] :	[F]	R:11	S; (2-)7-16
[1-Propanol] :	[F,Xi]	R:11-41-67	S: (2-)7-16-24-26-39
[Propanoic acid,2-hydroxy-,ethyl ester] :			
	[Xi]	R:10-37-41	S: (2-)24-26-39
[Benzenemethanol] :	[Xn]	R:20/22	S: (2-)26

Symbol :	F	(Highly Flammable)
	Xi	(Irritant)
	Xn	(Harmful)
Risk Phrase :	10	(Flammable)
	11	(Highly flammable)
	20/22	(Harmful by inhalation and if swallowed)
	37	(Irritating to respiratory system)
	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.)
	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

This information is furnished without warranty,express or implied,
except that it is accurate to the best knowledge of Shachihata Inc.

It relates only to the specific material designated herein,and does not relate to
use in combination with any other material or process.

Shachihata Inc. assumes no legal responsibility for
use or reliance upon this information.