



## 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.

**MATERIAL SAFETY DATA SHEET****8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

## EXPOSURE LIMIT VALUES

OSHA PEL (1994)		
	[1-Propanol]	TWA 200 ppm ( 500mg/m <sup>3</sup> )
ACGIH TLV (2003)		
	[1-Propanol]	TWA 200 ppm
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	25
Explosive Properties	No data available
Relative Density (g/cm <sup>3</sup> )	0.9 ~ 1.0 g/cm <sup>3</sup>
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)

[1-Propanol]			
	Oral	LD <sub>50</sub> (rat)	1,870 mg/kg
	Inhalation	LC <sub>50</sub> (rat)	4,000 ppm/4H
	Skin	LD <sub>50</sub> (rabbit)	5,040 mg/kg
[Benzenemethanol]			
	Oral	LD <sub>50</sub> (rat)	1,230 mg/kg
	Inhalation	LC <sub>50</sub> (rat)	> 500 mg/m <sup>3</sup>
	Skin	LD <sub>50</sub> (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)	
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 ,

[1-Propanol] :	[F,Xi]	R:11-41-67	S: (2-)7-16-24-26-39
[Benzenemethanol] :	[Xn]	R:20/22	S: (2-)26

Symbol :	F	( Highly Flammable)
	Xi	( Irritant)
	Xn	( Harmful)
Risk Phrase :	11	( Highly flammable)
	20/22	( Harmful by inhalation and if swallowed)
	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**

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