Material Safety Data Sheet For Zipset Printing Ink

Date: 8/15/95

For Printing Ink and Related Materials. Information on this form is propriety information and furnished solely for the use of our customers.

HAZARD RATINGS		
HEALTH	1	
FLAMMABILITY	1	-
REACTIVITY	0	
PERSONAL PROTECTION	В	

HAZARD GUIDELINES 0 MINIMAL

SLIGHT 2 MODERATE 3 SERIOUS

4 SEVERE NON-PHOTOCHEMICAL REACTIVE В

1. PRODUCT IDENTIFICATION

Manufacturer's Name: Tokyo Printing Ink Mfg. Co., Ltd.

2-7-15 Tabatashinmachi, Kita-Ku Tokyo, Japan

Telephone No.: 011-81-3-3810-9700

Emergency U.S.A. Telephone No.: 1-800-365-8742 Product Class: OFFSET PRINTING INK

Trade Name: ZIPSET

2. HAZARDOUS INGREDIENTS

INGREDIENT CAS# HAZARD DATA Organic Pigments

OSHA PEL 5MG/m3 Modified Rosin Ester 68082-96-2 (OIL MISTS) Modified Rosin Ester 65997-11-7 Linseed Oil 8001-20-5

Maganese Octoate 15956-58-8 Cobalt Octoate 136-52-7 Petroleum Distillate 8042-47-5

RECEIVED

Chemicals Listed as Carcinogen or Potential Carcinogen:

National Toxicology Program.....No
I.A.R.C. Monographs......No

3. HEALTH EFFECT INFORMATION

Eye Contact: May cause burning and/or irritation. Skin Contact: Repeated exposure may cause irritation Inhalation: . May cause headache, dizziness and/or nausea. Ingestion: May cause mouth, esophagus and/or stomach irritation.

4. EMERGENCY AND FIRST AID PROCEDURES

Flush eyes with large amounts of water while holding the eyelid open for approximately Eye Contact:

15 minutes. SEEK MEDICAL ATTENTION.

Skin Contact Remove contaminated clothing and wash skin with plenty of soap and water. Wash

clothing before reuse. If irritation persists seek medical attention Inhalation:

Remove victim to fresh air and restore breathing if necessary. SEEK MEDICAL

MEDICAL ATTENTION and stay with victim until arrival of medical personnel.

Contact local poison control center or physician immediately. DO NOT induce vomiting

5. PERSONAL HEALTH PROTECTION INFORMATION

Eye Protection: If splash potential exists, wear chemical splash goggles or faceshield.

Skin Protection: Not required under normal usage. If product is used in abnormal ways, wear

neoprene rubber gloves and apron or coveralls as needed to prevent repeated

or prolonged skin contact.

Respiratory Protection: Not required under normal usage. If product is used in abnormal ways, were

OSHA approved respirator.

Ventilation: Adequate ventilation in accordance with good engineering practices.

Other: Wash hands and face with soap and water before eating or smoking.

6. FIRE PROTECTION INFORMATION

Flash Point Greater than 305 degrees Fahrenheit

Hazardous Decomposition NONE

Extinguishing Media: Use NFPA Class B Extinguisher (Carbon Dioxide, Dry Chemical or Foam).

Special Fire Fighting Procedures: Water can be used to cool containers exposed to heat or fire Unusual Fire or Explosive Conditions: Dense smoke may be generated when burning.

Hazardous Combustion Products: Products or combustion-smoke, CO, CO2

7. REACTIVITY DATA

Stability (thermal, light, etc.): Stable

Incompatibility May react with strong oxidizing agents.

Hazardous Polymerization Stable
Hazardous Decomposition Products None

8 ENVIRONMENTAL PRECAUTIONS

Procedures Collect large spills with shovel, dry sand and/or absorbent materials. Clean spill area with

detergent solutions. Provide adequate ventilation during clean up.

Waste Disposal Method: Waste material should be dumped or buried in an approved industrial waste landfill.

Disposal must comply with all federal and local regulations.

9 SPECIAL PRECAUTIONS

Handling & Storage. Store in sealed containers away from heat, open flame and oxidizing materials. Fire

extinguishers must be kept readily available and personnel trained in proper use.

Precautionary Statement: Do not transfer to unmarked containers. Follow DOT Regulations during Transport.

10. PHYSICAL PROPERTIES

Boiling Point: 450-505 degrees Fahrenheit

Solubility: Insoluble in water

Melting Point. Greater than 220 degrees Fahrenheit

Appearance: Paste

Volatile by Weight Less than 33%

Vapor Density (Air=1): Lighter than air

Specific Gravity: Less than or equal to 1.1 (except Opaque White and Metallics which are less than or

equal to 1.5)

Evaporation Rate (EE=1): Slower than Butyl Acetate

ZIPSET TECHNICAL DATA SHEET Volatile Organic Compounds (VOC's) Test Method 24

PRODUCT DESCRIPTION	VOC % by Wt.	PRODUCT DESCRIPTION	VOC % by Wt.
FF PROCESS YELLOW	22.3	DENSE BLACK	17.7
		XL-R DENSE BLACK	16.9
FF PROCESS MAGENTA	23.0	MATTE BLACK	20.4
FF PROCESS CYAN	20.3		
FF PROCESS BLACK	19.4	MATCH PRINT YELLOW	31.6
		WEATHERING YELLOW	19.1
XL-R PROCESS YELLOW	28.9	WEATHERING MAGENTA	22.4
XL-R PROCESS MAGENTA	25.2		
XL-R PROCESS CYAN		O.P. TOP VARNISH	22.5
XL-R PROCESS BLACK	19.5	O.P. DULL VARNISH	19.8
AL-R PROCESS BEACK	10.0	O.I. DOLL VARIABLE	
GP-1 YELLOW	22.0	801 BLUE	14.4
GP-1 MAGENTA	22.5	802 GREEN	11.9
GP-1 CYAN	23.3	803 YELLOW	10.6
		804 ORANGE	10.2
GF-I BLACK	20.0	805 ORANGE	10.7
PANTONE YELLOW	23.3	806 PINK	10.3
	19.7	807 PURPLE	12.6
PANTONE RUBINE RED	22.1	OUT FUNFEL	12.0
PANTONE RHODAMINE RED		KOF#8BLACK	15.4
PANTONE PURPLE	16.4	KUF#0BLACK	13.4
PANTONE PORPLE PANTONE VIOLET	22.6	DUPLICATOR YELLOW	23.8
		DUPLICATOR WARM RED	22.3
PANTONE REFLEX BLUE	19.3	DUPLICATOR WARM RED	22.9
	20.1		
PANTONE GREEN	16.3	DUPLICATOR REFLEX BLUE	20.4
OPAQUE WHITE	12.7	DUPLICATOR PROCESS BLUE	20.9
PANTONE TRANSPARENT WHITE			17.6
PANTONE MIXING BLACK	19.8	DUPLICATOR TRANSPARENT WHITE	24.2
PANTONE 872 GOLD	18.0		
PANTONE 873 GOLD	13.9		
PANTONE 874 GOLD	15.4		
PANTONE 877 SILVER	21.1		
PANTONE 032 RED	17.9		
	21.3		
PANTONE 072 BLUE	20.1		
PANTONE 300 BLUE	20.9		