MATERIAL SAFETY DATA SHEET

MSDS No. 3501

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MANUFACTURER'S NAME:
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437

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SECTION 1		PRODUCT	INFORMATION
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TRADE NAME: 5500 SERIES FLAT POSTER INK +rans base - H M I S C O D E S - HEALTH - 2*

PRODUCT CLASS: SCREEN INK FLAMMABILITY - 2

REACTIVITY - 0

PRODUCT GROUP: 5500

	wt/gal	VOC	VOC	% VOC		wt/gal	VOC	VOC %	VOC
PRODUCT	15	g/1	lb/gal	VOL	PRODUCT	15	g/l	lb/gal	VOL
5508	9.7	359	3.0	44	5509	8.1	459	3.8	56
5511	7.4	476	4.0	60	5512	9.9	476	4.0	60
5513	8.4	459	3.8	57	5515	8.9	410	3.4	50
5521	8.9	450	3.8	55	5526	7.8	433	3.6	53
5527	8.4	461	3.8	57	5528	8.6	426	3.6	52
5530	6.5	671	5.6	84	5535	9.4	467	3.9	59
5536	7.9	525	4.4	66	5546	7.8	445	3.7	54
5547	8.4	402	3.4	49	5554	8.7	469	3.9	59
5557	8.2	456	3.8	57	5558	8.6	448	3.7	55
5561	7.9	558	4.7	68	5571	10.2	483	4.0	59
5573	9.6	541	4.5	67	5574	9.2	519	4.3	62
22/3	10.0	499	4.2	59	22/4		7-6	*.0	Õ
5576	10.0	サフフ	4.4	22			U	. 0	•

5561 5573 5576	7.9 558 9.6 541 10.0 499	4.7 4.5 4.2	68 67 59	5571 5574	10.2 483 9.2 519 .0 0	4.0 59 4.3 62 .0 0	_
	SECTION	2 1	HAZARD	OUS INGREDIENT	rs		_
CHEMICAL NAME; COMMON NAME; CAS NUMBER			ERCENT BY EIGHT	OCCUPATIONAL TLV	EXPOSURE LIMITS PEL	VAPOR PRESSURE IN mmHg	
ALIPHATIC HYDROC MINERAL SPIRITS CAS #: 8052-41-3	;		10-80	100PPM	100PPM	2.0 @ 20C	
* COPPER COMPOUNT CAS #: 7440-50-8 (CAS# & EXPOSURING FOR COPPER DUSTS	8; E LIMITS ARE		0-20	1MG/M3	3 1MG/M3	N/A	

CAS #: 7440-50-8; (CAS# & EXPOSURE LIMITS ARE FOR COPPER DUSTS & MISTS)				
PETROLEUM DISTILLATE; AROMATIC HYDROCARBON; CAS #: 64742-95-6	0-20	NOT ESTABLISHED	100PPM	3.0 @ 200
CRYSTALLINE SILICA; CAS #: 14464-46-1	0-15	.050MG/M3 (RESPIRABLE FR	.050MG/M3 ACTION OF DUST)	N/A
PETROLEUM DISTILLATE;	0- 7	100PPM	100PPM	.8 @ 20C
ALIPHATIC HYDROCARBON; CAS #: 64742-47-8		STEL:	200PPM	!
* 1,2,4-TRIMETHYLBENZENE; 1,2,4-TRIMETHYLBENZENE; CAS #: 95-63-6	0- 6	NOT ESTABLISHED	NOT ESTABLISHED	< 1 @ 20C
* ZINC COMPOUNDS;	0- 5	10MG/M3	10MG/M3	N/A
CAS #: 7440-66-6; (CAS# & EXPOSURE LIMITS ARE FOR ZINC DUSTS)		•		
* MANGANESE COMPOUNDS; CAS #: 7439-96-5; CAS# & EXPOSIDE LIMITS ARE FOR	0-4	5MG/M3	5MG/M3 CEILING VALUE	N/A

CAS #: 95-63-6						
* ZINC COMPOUNDS; CAS #: 7440-66-6; (CAS# & EXPOSURE LIMITS ARE FOR ZINC DUSTS)	er-reining andere der reining der	0 -	5	10MG/M3	10MG/M3	N/A
* MANGANESE COMPOUNDS; CAS #: 7439-96-5; (CAS# & EXPOSURE LIMITS ARE FOR MANGANESE DUSTS & COMPOUNDS)		0 -	4	5MG/M3	5MG/M3 CEILING VALUE	N/A
PETROLEUM DISTILLATE; AROMATIC HYDROCARBON; CAS #: 64742-94-5		0 -	3	NOT ESTABLISHED *(SUPPLIER R	100PPM* ECOMMENDATION)	<3 @ 25C
* XYLENE;	<	3		100PPM	100PPM	6.6 @ 20C
AROMATIC HYDROCARBON; CAS #: 1330-20-7				STEL	:150PPM	<u> </u>
						47 0 000

CAS #: 1330-20-7

ETHANOL; < 4 999PPM 999PPM 47 @ 20C

ETHYL ALCOHOL;

CAS #: 64-17-5

Combustible Liquid

OTHER COMMENTS:

NFPA RATING: H-2 F-2 R-0

100F - 115F (SETA FLASH)

LOWER EXPLOSIVE LEVEL: 1.0 % Vol. in Air

EXTINGUISHING MEDIA:
Foam- CO2- Dry Chemical- Water Spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat.

SPECIAL FIREFIGHTING PROCEDURES:
Water may be ineffective but may be used to cool containers. The use self-contained breathing apparatus is recommended for fire fighters.

SECTION 5 -- HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

ECTS OF OVEREXPOSURE:

Eye contact may cause moderate to severe irritation including burning, tearing, swelling and redness. Repeated and prolonged skin contact may cause slight irritation or mild dermatitis characterized by dryness, chapping and redness. Repeated or prolonged skin contact may cause burns to the skin. Overexposure by inhalation may cause respiratory tract irritation or nervous system disorders such as headaches, dizziness, weakness and fatigue. Ingestion may cause abdominal pain, nausea and diarrhea. Ingestion may cause vomiting. Aspiration of material into lungs, may cause chemical pneumonitis which can be fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Crystalline Silica is classified as a probable carcinogen by NTP & IARC (Group 2A). Excessive exposure to Crystalline Silica is also a known cause of Silicosis, a noncancerous lung disease. Overexposure should not occur during normal use. Xylene causes harm to the fetus in lab animal studies. The relevance of these findings to humans is uncertain. CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcemnet Act of 1986: This product contains a chemical(s) known to the State of California as a carcinogen and/or reproductive toxicant.

MEDICAL CONDITIONS PRONE TO AGGRAVATE BY EXPOSURE:

Persons with pre-existing skin or lung disorders may be more susceptible to the effects of this material. Repeated and prolonged overexposure and/or individual sensitivity may increase the potential for and degree of adverse health effects.

PRIMARY ROUTE(S) OF ENTRY:
Dermal - Inhalation - Ingestion

EMERGENCY AND FIRST AID PROCEDURES:
SKIN CONTACT: Wash with soap and water, contact physician if irritation persists. EYE CONTACT: Flush well with running water for a minimum of 15 minutes, contact physician if irritation persists. INHALATION: Remove to fresh air, restore breathing, contact physician. INGESTION: Contact physician or Poison Control Center immediately.

OTHER COMMENTS:

The potential health effects of this product are based on the hazards of

OTHER COMMENTS:
its components. TSCA Inventory: All ingredients listed.

SECTION 6 -- REACITIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: Heat, sparks and open flame.

INCOMPATIBILITY (WITH MATERIALS):
 Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon Monoxide, Carbon Dioxide and other noxious gases.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 7 -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Remove all sources of ignition. Ventilate area. Avoid breathing vapors.
Contain release and remove with inert absorbent. Avoid contact. Use
non-sparking tools to place material in appropriate container for disposal.

WASTE DISPOSAL METHOD:
Dispose of in accordance with applicable local, county, state, and federal regulations.

SECTION 8 -- SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

If vapor concentration exceeds the TLV listed in Section II, use NIOSH approved respirator with organic chemical cartridge. Contact a reputable safety supply company for the appropriate respirator.

VENTILATION:

Use applicable engineering controls, work practices, and personal protective equipment to keep the vapor concentration below the TLV listed in Section II.

PROTECTIVE GLOVES:

Use neoprene, nitrile or other gloves resistant to solvents listed in Section II. Contact a reputable safety supply company for appropriate gloves.

EYE PROTECTION:

Use splash-proof goggles or safety glasses. Contact a reputable safety supply company for appropriate eye protection. The use of contact lenses is not recommended.

OTHER PROTECTION:

Solvent resistant aprons and availability of an eye wash are recommended. Smoke in designated areas only.

HYGIENIC PRACTICES:
Wash with soap and water before eating, smoking or using toilet facilities.
Remove contaminated clothing to prevent prolonged skin contact.

SECTION 9 -- SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Store in closed containers in cool, dry, well ventilated area away from sources of ignition. Keep containers closed when not in use.

OTHER PRECAUTIONS:

Avoid prolonged or repeated overexposure to this product. Empty containers should be disposed of in an environmentally safe manner in accordance with applicable regulations.

SECTION 10 -- DISCLOSURE

DISCLOSURE INFORMATION:

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind express or implied is made with respect to the information contained herein.