



MATERIAL SAFETY DATA SHEET

SECTION I
PRODUCT IDENTIFICATION



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Stencil Inks & Stencil Covers

STENCIL/ISD

SECTION II		ACGIH TLV <STEL>	OSHA PEL <STEL>	Units	Vapor Pressure (mm Hg)	S03105 White	S03106 Red	S03108 Black	S03109 Blue	S03111 Green	S03112 Orange	S03119 Tan Stencil Kover	S03121 Medium Blue	S03127 No-Lead Yellow
CAS No.	HAZARDOUS INGREDIENT (percent by weight)													
74-98-6	Propane		1000	PPM	760.0	15	15	15	15	15	15	15	15	15
106-97-8	Butane	800	800	PPM	760.0	15	15	15	15	15	15		15	15
64742-89-8	V. M. & P. Naphtha	300	300 <400>	PPM	12.0	9	11	10	12	10	11		11	15
108-88-3 §	Toluene	50	100 <150>	PPM (Skin)	22.0							12		
1330-20-7	Xylene	100 <150>	100 <150>	PPM	5.9							4		
67-64-1	Acetone	750 <1000>	750 <1000>	PPM	180.0	39	33	33	31	33	33	24	26	24
78-93-3 §	Methyl Ethyl Ketone	200 <300>	200 <300>	PPM	70.0							18		
123-86-4	n-Butyl Acetate	150 <200>	150 <200>	PPM	10.0	6	8	8	8	8	8		12	7
14807-96-6	Talc	2	2	Mg/M3	as Resp. Dust	5	10	9	9	8	8		9	10
471-34-1	Calcium Carbonate	10	15[5]	Mg/M3	as Dust [Resp. Fraction]							18		
13463-67-7	Titanium Dioxide	10	10[5]	Mg/M3	as Dust [Resp. Fraction]	5							2	2
1333-86-4	Carbon Black	3.5	3.5	MG/M3				1				0		
Weight per Gallon (lbs.)						6.25	6.29	6.26	6.29	6.27	6.23	7.26	6.38	6.42
VOC as a percent by weight per BAAQMD Rule 49						54.6	59.5	58.5	60.8	58.7	58.9	65.4	65.6	65.8
Solids by Volume (%)						6.4	7.5	8.5	8.2	8.3	8.1	10.6	8.4	10.2
Percent Water														
VOC (Volatile Organic Compounds) Total - lbs./gal.						2.83	3.12	3.04	3.17	3.08	3.09	3.67	3.46	3.40
HMIS (NFPA) Rating (health - flammability - reactivity)						2 4 0	2 4 0	2* 4 0	2 4 0	2 4 0	2 4 0	2* 4 0	2 4 0	2 4 0

§ Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.65 C

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Section III — PHYSICAL DATA

<i>PRODUCT WEIGHT</i> - See TABLE	<i>EVAPORATION RATE</i> - Faster than Ether
<i>SPECIFIC GRAVITY</i> - 0.75-0.85	<i>VAPOR DENSITY</i> - Heavier than Air
<i>BOILING RANGE</i> - <0-325 °F	<i>MELTING POINT</i> - N.A.
<i>SOLUBILITY IN WATER</i> - N.A.	

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION FLASH POINT <0 °F PMCC LEL 0.9 UEL 19.0
Flammable, Flash below 21 °F

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS
Isolate from heat, electrical equipment, sparks and open flame. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section V — HEALTH HAZARD DATA

ROUTES OF EXPOSURE
Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

ACUTE Health Hazards

EFFECTS OF OVEREXPOSURE
Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death

SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.

EMERGENCY AND FIRST AID PROCEDURES

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
If on SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.

If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
If SWALLOWED: Seek medical attention.

CHRONIC Health Hazards
Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.
Methyl Ethyl Ketone may increase the nervous system effects of other solvents.
Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver, urinary, blood-forming, cardiovascular, and reproductive systems.
Rats exposed to titanium dioxide dust at 250 mg./m³ developed lung cancer, however, such exposure levels are not attainable in the workplace.
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Section VI — REACTIVITY DATA

STABILITY - Stable

CONDITIONS TO AVOID
None known.

INCOMPATIBILITY
None known.

HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION - Will Not Occur

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate and remove with inert absorbent.

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Waste from products containing Methyl Ethyl Ketone may also require testing for extractability.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section VIII — PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section IX — PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120 °F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section X — OTHER REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65

WARNING: These products contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

TSCA CERTIFICATION

All chemicals in these products are listed, or are exempt from listing, on the TSCA Inventory.

The above information pertains to these products as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to these products may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.