

MATERIAL SAFETY DATA SHEET

13-445

THRU

13-461

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME SANFORD CORPORATION		EMERGENCY TELEPHONE NO. (312) 547-6650
ADDRESS (Number, Street, City, State, and ZIP Code) 2740 Washington Blvd., Bellwood, IL 60104		
CHEMICAL NAME AND SYNONYMS Sanford's Dri-Line Ink		TRADE NAME AND SYNONYMS KING SIZE MARKER HIGH IMPACT 50000 SERIES
CHEMICAL FAMILY Mixture	FORMULA PROPRIETARY	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS	-		BASE METAL	-	
CATALYST	-		ALLOYS	-	
VEHICLE Resins	6-8	Undet.	METALLIC COATINGS	-	
SOLVENTS **	80-88	100ppm	FILLER METAL PLUS COATING OR CORE FLUX	-	
ADDITIVES Cresol	0-2	5ppm	OTHERS	-	
OTHERS Dyes	4-13	Undet.			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
** Toluene, Xylene, Aromatic blend					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	232	SPECIFIC GRAVITY (H ₂ O=1)	0.88-0.91
VAPOR PRESSURE (mm Hg.)	22	PERCENT VOLATILE BY VOLUME (%)	80-90
VAPOR DENSITY (AIR=1)	> 1	EVAPORATION RATE (Ethyl Ether=1)	< 1
SOLUBILITY IN WATER	NIL		
APPEARANCE AND ODOR	Colored Liquid, Aromatic Odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) -730 F (TCC)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA Alcohol foam, dry chemical, or carbon dioxide.			
SPECIAL FIRE FIGHTING PROCEDURES Self contained breathing apparatus with a full facepiece operated in a positive pressure mode.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Heavier than air vapors.			

THRESHOLD LIMIT VALUE See Section II
EFFECTS OF OVEREXPOSURE Eyes-severe irritation, blurred vision; Skin-moderate irritation; Inhalation - respiratory irritation, dizziness, nausea, headache; Ingestion - gastrointestinal irritation, nausea, vomiting.
EMERGENCY AND FIRST AID PROCEDURES Eyes-flush with water, call physician; Skin-wash thoroughly with soap and water; Inhalation-remove to fresh air, call physician if symptoms persist; Ingestion-
do not induce vomiting, call physician.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	High heat, open flames.
INCOMPATIBILITY (Materials to avoid) Strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Burning can produce carbon monoxide and carbon dioxide.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Eliminate all ignition sources, ventilate area, collect with absorbent material.	
WASTE DISPOSAL METHOD	
Dry absorbent material in hood and dispose of absorbent material as solid waste.	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type) If any TLV is exceeded, use NIOSH/MSHA air supplied respirator.		
VENTILATION	LOCAL EXHAUST Acceptable to keep exposure below TLV's	SPECIAL
	MECHANICAL (General) Acceptable to keep exposure below TLV's.	OTHER
PROTECTIVE GLOVES Solvent resistant as needed.		EYE PROTECTION OSHA approved for splash protection.
OTHER PROTECTIVE EQUIPMENT		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Storage appropriate for flammable liquids.	
OTHER PRECAUTIONS	

PAGE (2) *The information on this Material Safety Data Sheet refers to the inks used in these pens or markers and it applies to handling this ink in bulk. The ink in the pens or markers is contained in a capillary reservoir and tip, and will not spill or leak under normal conditions.

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