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Form Approved
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U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

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

SECTION I

MANUFACTURER'S NAME STAEDTLER MARS GmbH & Co.	EMERGENCY TELEPHONE NO. 0911 / 30 80 319
ADDRESS (Number, Street, City, State, and ZIP Code) Moosäckerstraße 3, D-8500 Nürnberg 90	
CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS CALLIGRAPH DUO 3002 Red ink
CHEMICAL FAMILY	FORMULA

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Unit)	ALLOYS AND METALLIC COATINGS	%	TLV (Unit)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS Ethylene Glycol	8	TWA VAPOR 50ppm	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Unit)
none					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N.D.	SPECIFIC GRAVITY (H ₂ O=1)	1.09
VAPOR PRESSURE (mm Hg.)	N.D.	PERCENT VOLATILE BY VOLUME (%)	85
VAPOR DENSITY (AIR=1)	N.D.	EVAPORATION RATE (____=1)	N.D.
SOLUBILITY IN WATER	soluble		
APPEARANCE AND ODOR	Red colored reiquid with low viscosity		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Methods used)	N.D.	FLAMMABLE LIMITS	N.A.	Lel	Uel
EXTINGUISHING MEDIA	N.D.				
SPECIAL FIRE FIGHTING PROCEDURES	N.D.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	NONE				

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SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N.D.
EFFECTS OF OVEREXPOSURE	N.D.
EMERGENCY AND FIRST AID PROCEDURES	
Eyes: Immediately flush with water enough and see a physician.	
Skin: Wash with soap water enough.	
Ingestion: Do not induce vomiting, see a phisician immediately.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	none
INCOMPATIBILITY (Materials to avoid) N.D.			
HAZARDOUS DECOMPOSITION PRODUCTS N.D.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	none

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Wash with water and remove with cloth.	
WASTE DISPOSAL METHOD	
Waste disposal should be in accordance with existing federal, estate and local environmental regulations.	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type) N.D.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES Rubber to prevent skin stain		EYE PROTECTION Goggles
OTHER PROTECTIVE EQUIPMENT N.D.		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Sotring: avoid high temperature or freezing.	
OTHER PRECAUTIONS none	