

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

Form Approved
OMB No. 44-R1887

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 METROPOLITAN REFINING CO., INC.		EMERGENCY TELEPHONE NO. 212 729-7200
ADDRESS (Number, Street, City, State, and ZIP Code) 50-23 Twenty-Third Street, Long Island City, New York 11101		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS CORRODINE 710 - CORRODINE 940
CHEMICAL FAMILY Amine	FORMULA Water Solution of Diethyl Amine Ethanol	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES				%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	215	SPECIFIC GRAVITY (H ₂ O=1)	1.00
VAPOR PRESSURE (mm. Hg.)		PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR=1)	3.0	EVAPORATION RATE (Water=1)	1.0
SOLUBILITY IN WATER			
APPEARANCE AND ODOR Colorless liquid with amine odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): Above 200 F	FLAMMABLE LIMITS	Le	Ue
EXTINGUISHING MEDIA Carbon dioxide, foam or water fog			
SPECIAL FIRE FIGHTING PROCEDURES Water dilution. Self-contained breathing apparatus for fireman			
UNUSUAL FIRE AND EXPLOSION HAZARDS			
None			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	10 ppm for Diethyl Amine Ethanol
EFFECTS OF OVEREXPOSURE	Causes eye burns and mild skin irritation
EMERGENCY AND FIRST AID PROCEDURES	
Flush eyes with water for 15 min., get medical attention. Flush skin with water. If ingested, give large quantities of water. Give one ounce of vinegar in one ounce of water.	

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	None
INCOMPATIBILITY (Materials to avoid)			
Strong acids.			
HAZARDOUS DECOMPOSITION PRODUCTS			
Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia			
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
Flush with water.
WASTE DISPOSAL METHOD
Incinerate or flush with water.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)		
Air-supplied mask in confined areas.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES	Wear rubber gloves.	EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT	Eye bath and safety shower.	Wear chemical goggles.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Keep away from heat, sparks and fire, avoid contact with skin, eyes and clothing.
OTHER PRECAUTIONS