

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

Form Approved
OMB No. 44-11867

MATERIAL SAFETY DATA SHEET

000152

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 Amino 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	Lc	Uc
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 Amino 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	Preferred	SPECIAL
	MECHANICAL (General)	Acceptable	OTHER
PROTECTIVE GLOVES		EYE PROTECTION	
Wear rubber gloves.		Wear chemical goggles.	
OTHER PROTECTIVE EQUIPMENT			
Eye bath and safety shower.			

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	