

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

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET 13-436

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

SECTION I

MANUFACTURER'S NAME DITTO DIVISION A.T.F. DAVIDSON		EMERGENCY TELEPHONE NO. (617) 234-7451
ADDRESS (Number, Street, City, State, and ZIP Code) MAIN STREET WHITINSVILLE, MA 01588		
CHEMICAL NAME AND SYNONYMS METHANOL	TRADE NAME AND SYNONYMS DITTO DIRECT PROCESS	
CHEMICAL FAMILY ALCOHOL	FORMULA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS METHANOL	100	200	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.)	64.5°C	148°F	SPECIFIC GRAVITY (H ₂ O=1)	20/20°C	0.7927
VAPOR PRESSURE (mm Hg.)	20°C	91 MM	PERCENT VOLATILE BY VOLUME (%)		
VAPOR DENSITY (AIR=1)		1.11	EVAPORATION RATE (Ether = 1)		5.2
SOLUBILITY IN WATER					

APPEARANCE AND ODOR **COLORLESS LIQUID - SLIGHT ALCOHOL-LIKE ODOR**

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	60°F T.O.C.	FLAMMABLE LIMITS % BY VOLUME OF AIR	Lel	Uel
			6.0	36.5
EXTINGUISHING MEDIA CARBON DIOXIDE, DRY CHEMICAL, WATER FOG OR "ALCOHOL-TYPE" FOAM				
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS CAN REACT VIGOROUSLY WITH OXIDIZING MATERIALS				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	200 PPM (260 MG/M ³)
EFFECTS OF OVEREXPOSURE	MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED
EMERGENCY AND FIRST AID PROCEDURES IN CASE OF CONTACT WITH EYES, FLUSH THOROUGHLY WITH WATER. IF SWALLOWED INDUCE VOMITING. REPEAT UNTIL VOMIT IS CLEAR. CALL A PHYSICIAN IMMEDIATELY. DO NOT USE TABLET SALT SOLUTION. IF AVAILABLE, USE ONE TABLESPOON (½ oz) IPECAC SYRUP PLUS AT LEAST ONE CUP OF WATER.	

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE	CONDITIONS TO AVOID
	STABLE	
INCOMPATIBILITY (Materials to avoid) INORGANIC ACIDS, ALDEHYDES & ISOCYANATES.		
HAZARDOUS DECOMPOSITION PRODUCTS		
HAZARDOUS POLYMERIZATION	MAY OCCUR	CONDITIONS TO AVOID
	WILL NOT OCCUR	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	DILUTE WITH LARGE QUANTITIES OF WATER. REMOVE CONTAINERS TO ISOLATED WELL VENTILATED AREA.
WASTE DISPOSAL METHOD	DILUTE WITH WATER

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) USE ONLY IN WELL VENTILATED AREA.		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES		EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	KEEP AWAY FROM HEAT & OPEN FLAME. DO NOT STORE IN OPEN OR UNLABELED CONTAINERS.
AVOID ORAL INTAKE & PROLONGED BREATHING OF CONCENTRATED VAPORS.	
OTHER PRECAUTIONS	