Form Approved OMB
No. 44-R1387
Approval Expires:
July 30, 1972

U.S. DEPARTMENT OF LABOR

81030 Revised -219
Form No. OSHA-20
May, 1971

1 - S.D. File
1 - R. London

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
MONSANTO COMPANY	(314) 694-1000

ADDRESS (Number, Street, City, State, and ZIP Code)
800 North Lindbergh Boulevard, St. Louis, Missouri 63166

CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS
Ortho Nitroaniline	ONA
CHEMICAL FAMILY	**FORMULA**
Aromatic Amine	$C_6H_6N_2O_2$

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.) 760 mm.	284°C	SPECIFIC GRAVITY (H_2O=1) 80/15.5°C	1.254
VAPOR PRESSURE (mm Hg.) 104°C	1 mm.	PERCENT VOLATILE BY VOLUME (%)	N.A.
VAPOR DENSITY (AIR=1)	Not avail.	EVAPORATION RATE (_____=1)	N.A.
SOLUBILITY IN WATER at 128°C moderate	2.95%		
APPEARANCE AND ODOR orange flakes		faint amine odor.	

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)		FLAMMABLE LIMITS	LEL	UEL
C.O.C.	130°C	Not avail.		

EXTINGUISHING MEDIA: water foam, CO_2, or dry powder

SPECIAL FIRE FIGHTING PROCEDURES: respiratory protection when fighting fires where exposure to vapors or gases is possible.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Highly toxic gases (nitrogen oxides) can be evolved in fires of this product

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ONA

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	Not available.
EFFECTS OF OVEREXPOSURE	Blue tint to fingernails, lips and ears indicative of cyanosis. Headache, drowsiness and nausea, followed by unconsciousness.
EMERGENCY AND FIRST AID PROCEDURES	Remove from exposure immediately. Remove contaminated clothing. Wash contacted area with copious amounts of water and soap (if available). If needed administer oxygen. Refer to physician.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	x	
INCOMPATABILITY (Materials to avoid)	Strong oxidizing agents.		
HAZARDOUS DECOMPOSITION PRODUCTS	CO, CO_2, soot, smoke, nitrogen oxides.		
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	Absorb on clay, sawdust, or other absorbent material or drum and dispose of in approved chemical landfill in accordance with local and state regulations.
WASTE DISPOSAL METHOD	Bury in chemical landfill.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)	Bureau of Mines dust cartridge for dust.		
VENTILATION	LOCAL EXHAUST: yes - for vapors or dust.	SPECIAL	
	MECHANICAL (General)	OTHER	
PROTECTIVE GLOVES	rubber	EYE PROTECTION	chemical goggles.
OTHER PROTECTIVE EQUIPMENT			

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Do not store near strong oxidizing agents. Avoid skin and eye contact. Avoid inhalation of dusts or vapors.
OTHER PRECAUTIONS	

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While the information and recommendations set forth herein are believed to be accurate as of the date hereof, MONSANTO COMPANY MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

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