JAN 22 1982

DPM 1370-2

Form Approved
Budget Bureau No. 44-R1387
Approval Expires April 30, 1971

Form No. LSB-OOS-4
May 1969

U.S. DEPARTMENT OF LABOR

WAGE AND LABOR STANDARDS ADMINISTRATION
Bureau of Labor Standards

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME: Allied Chemical Corporation	EMERGENCY TELEPHONE NO.: (201) 455-2000
ADDRESS (Number, Street, City, State, and ZIP Code): P.O. Box 1087R Morristown, New Jersey 07960	
CHEMICAL NAME AND SYNONYMS: x-methyl-5-norbornene-2,3-dicarboxylic anhydride	TRADE NAME AND SYNONYMS: Nadic Methyl Anhydride
CHEMICAL FAMILY: Dicarboxylic acid anhydride	FORMULA: $C_{10}H_{10}O_5$

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS		%	TLV (Units)	ALLOYS AND METALLIC COATINGS		%	TLV (Units)
PIGMENTS	N.A.			BASE METAL	N.A.		
CATALYST	N.A.			ALLOYS	N.A.		
VEHICLE	N.A.			METALLIC COATINGS	N.A.		
SOLVENTS	N.A.			FILLER METAL PLUS COATING OR CORE FLUX	N.A.		
ADDITIVES	N.A.			OTHERS	N.A.		
OTHERS	N.A.						

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
x-methyl-5-norbornene-2,3-dicarboxylic anhydride	100	

SECTION III PHYSICAL DATA

BOILING POINT (°F.)	10 mm Hg 135-143°C	SPECIFIC GRAVITY (H_2O=1)	1.22
VAPOR PRESSURE (mm Hg.)	1.5 mm at 102°C	PERCENT VOLATILE BY VOLUME (%)	---
VAPOR DENSITY (AIR=1)	---	EVAPORATION RATE (_____=1)	---
SOLUBILITY IN WATER	Reacts with water - Insoluble		
APPEARANCE AND ODOR	Clear colorless to light yellow liquid		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): 140°C open cup	FLAMMABLE LIMITS: ----	Lel	Uel
EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, water fog or foam			
SPECIAL FIRE FIGHTING PROCEDURES: NONE			
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE			

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Not available

EFFECTS OF OVEREXPOSURE: Material is extremely irritating to the eyes and is a skin irritant. Vapor is harmful.

EMERGENCY AND FIRST AID PROCEDURES: For skin contact, wash with soap and warm water. For eye contact immediately flush eyes with plenty of water for at least 15 minutes and get medical attention. In case of accidental swallowing, if conscious**

SECTION VI REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		
	STABLE	X	Heat

INCOMPATABILITY *(Materials to avoid)*

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Flush to sewer with cold water

WASTE DISPOSAL METHOD: Flush to sewer with cold water if in accordance with local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)*: Acid type chemical mask where vapors are present

VENTILATION			
	LOCAL EXHAUST: Must be adequate to remove		SPECIAL
	MECHANICAL *(General)*: Vapors		OTHER

PROTECTIVE GLOVES	EYE PROTECTION
YES	YES splash proof type

OTHER PROTECTIVE EQUIPMENT: Rubber apron

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Avoid contact with eyes, skin and inhalation of vapor.

OTHER PRECAUTIONS: ** induce vomiting by giving a tablespoon of salt in a glass of warm water and repeat until fluid is clear. Apply artificial respiration if not breathing. Keep patient warm and quiet. Get medical attention. Wash contaminated clothing before reuse.