JAN 28 1982

MCDONNELL DOUGLAS CORPORATION

U.S. DEPARTMENT OF LABOR
WORKPLACE STANDARDS ADMINISTRATION
BUREAU OF LABOR STANDARDS

FORM NO OSHA-20 (MODIFIED)
MAY 1971

MATERIAL SAFETY DATA SHEET

MDC CONTROL NO. DPM 2614

SECTION I: MATERIAL AND MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: DOW CHEMICAL OR UNION CARBIDE

EMERGENCY TELEPHONE NO.: N/A

ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE):

CHEMICAL NAME AND SYNONYMS: POLYETHYLENE GLYCOL MONOSTEARATE

TRADE NAME AND SYNONYMS: POLYGLYCOL E-4000/CARBOWAX E-4000

CHEMICAL FAMILY: POLETHYLENE GLYCOL

FORMULA: $HOCH_2(CH_2OCH_2)CH_2OH_{10}$

SECTION II: HAZARDOUS INGREDIENTS*

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

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES*	%	TLV (UNITS)
POLYETHYLENE GLYCOL MONOSTEARATE	100	NO

SECTION III: PHYSICAL DATA

BOILING POINT (°F)		SPECIFIC GRAVITY (H_2O = 1)	1.122
VAPOR PRESSURE (mm Hg.)		PERCENT VOLATILE BY VOLUME (%) N/A	
VAPOR DENSITY (AIR = 1)		EVAPORATION RATE (_____ = 1)	
SOLUBILITY IN WATER		MELTING POINT 58-62	58-62°F

APPEARANCE AND ODOR: WHITE WAXY SOLID

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	Lel	Uel
> 246°C	N/A		

EXTINGUISHING MEDIA: CO_2

SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE, FIRE HAZARD SLIGHT WHEN EXPOSED TO HEAT OR FLAME

*PLEASE DO NOT USE GENERALIZATIONS, SUCH AS PETROLEUM HYDROCARBONS, ALCOHOL, KETONES. USE SPECIFIC CHEMICAL NAMES, SUCH AS METHANOL, BENZENE, PERCHLOROETHYLENE. See FLASH POINT

BOE-C6-0204350

SECTION V: HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

NO TRESHOLD LIMIT VALUE ESTABLISHED. PER U.S. Dpt of Health

EFFECTS OF OVEREXPOSURE

TOXIC SUBSTANCE LIST (TQ54250) LTD LO: 22 kg/kg in mic

ORAL ADMINISTRATION

EMERGENCY AND FIRST AID PROCEDURES

NONE

USED WIDELY AS AN APPROVED FOOD ADDITIVE

SECTION VI: REACTIVITY DATA

			CONDITIONS TO AVOID
STABILITY	UNSTABLE		
	STABLE	✓	

INCOMPATIBILITY (MATERIALS TO AVOID)

MAY REACT WITH OXIDIZING MATERIAL

HAZARDOUS DECOMPOSITION PRODUCTS

			CONDITIONS TO AVOID
HAZARDOUS POLYMERIZATION	MAY OCCUR		
	WILL NOT OCCUR	✓	

SECTION VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

WASTE DISPOSAL METHOD

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE)

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

NONE

OTHER PRECAUTIONS

M. G. COLLIN CI-121 — PREPARED BY

4-6-77 — DATE