

MAY 16 1994

DOW CORNING CORPORATION  
MATERIAL SAFETY DATA SHEET

DOW CORNING(R) 33 EXT. LOW TEMP BEARING GREASE-MED

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EMERGENCY TELEPHONE NO. (517) 496-5900

SECTION I - GENERAL INFORMATION

MANUFACTURER'S NAME: DOW CORNING CORP. PRODUCT INFORMATION NO. (517) 496-6000  
ADDRESS: SOUTH SAGINAW ROAD, MIDLAND MI 48686

PROPER SHIPPING NAME(49CFR 172.101): NONE

D.O.T. HAZARD NAME(49CFR 172.101): NONE

D.O.T. ID NO(49CFR 172.101): NONE

D.O.T. HAZARD CLASS(49CFR 172.101): NONE

RCRA HAZARD CLASS(40CFR 261)(IF DISCARDED): NONE

E.P.A. PRIORITY POLLUTANTS(40CFR 122.53): NONE

NFPA = NATIONAL FIRE PROTECTION ASSOCIATION - 704

HEALTH (NFPA): 1 FLAMMABILITY (NFPA): 1 REACTIVITY (NFPA): 0

CAS NO: MIXTURE DOW CORNING WARNING CODE: NOT

GENERIC DESCRIPTION: SILICONE USED

SECTION II - HAZARDOUS INGREDIENTS AS DEFINED IN 29 CFR 1910.1200  
(CARCINOGENS IDENTIFIED WITH AN ASTERISK \*)

CAS NO.	INGREDIENT	WT. %	EXPOSURE LIMITS
033204761	2,6 CIS-DIPHENYLYHEXA- METHYL CYCLOTETRASILOXANE	< 0.02	DOW CORNING GUIDE: TWA 20 MICROGMS/M3.
010448096	HEPTAMETHYLMONOPHENYL- CYCLOTETRASILOXANE	< 0.3	DOW CORNING GUIDE: TWA 200 MICROGMS/M3.
004485125	LITHIUM STEARATES	22	OBSERVE OSHA PARTICULATES LIMITS. TWA 15 MG/M3 TOTAL DUST, 5 MG/M3 RESPIRABLE FRACTION. ACGIH TLV(STEARATED): TWA 10 MG/M3 TOTAL DUST.

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SECTION III - EFFECTS OF OVEREXPOSURE

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EYE: DIRECT CONTACT MAY CAUSE TEMPORARY DISCOMFORT WITH MILD REDNESS AND DRYNESS SIMILAR TO WINDBURN.

SKIN: A SINGLE RELATIVELY SHORT EXPOSURE CAUSES NO KNOWN ADVERSE EFFECT. SEVERAL REPEATED PROLONGED EXPOSURES (24 TO 48 HOURS) MAY IRRITATE.

INHALATION: IRRITATES RESPIRATORY PASSAGES AND EYES VERY SLIGHTLY.

ORAL: SMALL AMOUNTS TRANSFERRED TO THE MOUTH BY FINGERS DURING USE, ETC., SHOULD NOT INJURE. SWALLOWING LARGE AMOUNTS MAY CAUSE DIGESTIVE DISCOMFORT.

COMMENTS: THE CYCLOTETRAILOXANES SHOWN IN SEC.II ARE ESTROGEN-LIKE CHEMICALS. ANIMAL STUDIES INDICATE ESTROGENS MAY CAUSE CANCER AND ADVERSE REPRODUCTIVE EFFECTS AFTER PROLONGED EXPOSURE TO HIGH DOSE LEVELS. NO INJURY FROM STEARATE DUSTS SHOULD OCCUR DURING REASONABLE USE. IF USE CREATES RESPIRABLE PARTICLES SOME RESPIRATORY SYSTEM INJURY MAY OCCUR.

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SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

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EYES: IMMEDIATELY FLUSH WITH WATER.

SKIN: WIPE OFF AND WASH WITH MILD SOAP AND WATER SOLUTION OR "WATERLESS" CLEANER.

INHALATION: NO FIRST AID SHOULD BE NEEDED.

ORAL: NO FIRST AID SHOULD BE NEEDED.

COMMENT: NONE.

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SECTION V - FIRE AND EXPLOSION DATA

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FLASH POINT (METHOD USED): OPEN CUP ABOVE 250F/121C

AUTOIGNITION: NOT DETERMINED.

FLAMMABILITY LIMITS IN AIR : LOWER:N.A. UPPER:N.A.

EXTINGUISHING MEDIA: WATER WATER FOG X CO2 X DRY CHEMICAL X FOAM X OTHER

SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN TO DOW CORNING.

COMMENTS: N.A. - NOT APPLICABLE.

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SECTION VI - PHYSICAL DATA

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BOILING POINT(AT 760 MM HG): NOT APPLICABLE  
SPECIFIC GRAVITY (AT 77 DEG F/25 DEG C): 1.05  
MELTING POINT: NOT APPLICABLE  
VAPOR PRESSURE (AT 77 DEG F/25 DEG C): LESS THAN 5 MM.  
VAPOR DENSITY (AIR = 1 AT 77 DEG F/25 DEG C): NOT APPLICABLE  
PERCENT VOLATILE BY WEIGHT (%): LESS THAN 5  
EVAPORATION RATE (ETHER = 1): NOT APPLICABLE  
SOLUBILITY IN WATER(%): LESS THAN 0.1  
ODOR, APPEARANCE, COLOR: VERY LITTLE ODOR, GREASE, LIGHT BEIGE-TAN

NOTE: THE ABOVE INFORMATION IS NOT INTENDED FOR USE IN PREPARING PRODUCT SPECIFICATIONS. CONTACT DOW CORNING BEFORE WRITING SPECIFICATIONS.

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SECTION VII - REACTIVITY DATA

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STABILITY: STABLE

INCOMPATABILITY(MATERIAL TO AVOID): OXIDIZING MATERIAL CAN CAUSE A REACTION.

CONDITIONS TO AVOID: NOT APPLICABLE

HAZARDOUS DECOMPOSITION PRODUCTS: LITHIUM OXIDE, SILICON DIOXIDE, CARBON DIOXIDE, AND TRACES OF INCOMPLETELY BURNED CARBON PRODUCTS, INCLUDES FORMALDEHYDE. ALSO SEE SECTION IX.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NOT APPLICABLE

COMMENTS: NONE.

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SECTION VIII - SPILL, LEAK, MAINTENANCE/REPAIR AND DISPOSAL PROCEDURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE PRODUCT AND USE ABSORBENT MATERIAL TO TAKE CARE OF ANY OIL-LIKE RESIDUES.

PROTECTIVE EQUIPMENT:

EYES: USE PROPER PROTECTION -- SAFETY GLASSES, AS A MINIMUM.

SKIN: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE.

INHALATION: NO RESPIRATORY PROTECTION SHOULD BE NEEDED.

WASTE DISPOSAL METHOD: DOW CORNING SUGGESTS THAT ALL LOCAL, STATE AND FEDERAL REGULATIONS CONCERNING HEALTH AND POLLUTION BE REVIEWED TO DETERMINE APPROVED DISPOSAL PRODEURES. CONTACT DOW CORNING IF THERE ARE ANY DISPOSAL QUESTIONS.

D.O.T. (49CFR 171.8)/E.P.A. (40CFR 117) SPILL REPORTING INFORMATION  
HAZARDOUS SUBSTANCE: NONE REPORTABLE QUANTITY: NOT APPLICABLE  
CONCENTRATION OF HAZARDOUS SUBSTANCE: NOT APPLICABLE  
REPORTABLE QUANTITY OF PRODUCT: NOT APPLICABLE

COMMENTS: PRODUCT CONTAINS NO INGREDIENT SUBJECT TO D.O.T OR E.P.A. CERCLA/SARA ENVIRONMENTAL RELEASE REPORTING REGULATIONS. SEE SEC. XI FOR ADDITIONAL SARA COMPLIANCE INFORMATION.

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SECTION IX - ROUTINE HANDLING PRECAUTIONS

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PROTECTIVE EQUIPMENT:

EYES: USE PROPER PROTECTION -- SAFETY GLASSES, AS A MINIMUM.

SKIN \*: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE.

INHALATION: NO RESPIRATORY PROTECTION REQUIRED.

VENTILATION:

LOCAL EXHAUST: NONE SHOULD BE NEEDED.

MECHANICAL (GENERAL): RECOMMENDED

SUITABLE RESPIRATOR: NONE SHOULD BE NEEDED.

THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING; USE AT ELEVATED TEMPERATURES, OR AEROSOL/SPRAY APPLICATIONS, MAY REQUIRE ADDED PRECAUTIONS.

\* GOOD PRACTICE REQUIRES THAT GROSS AMOUNT OF ANY CHEMICAL BE REMOVED FROM THE SKIN AS SOON AS PRACTICAL, ESPECIALLY BEFORE EATING OR SMOKING.

COMMENTS: NONE

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SECTION X - SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: USE REASONABLE CARE AND CAUTION.

OTHER PRECAUTIONS: SEE SECTION XI.

COMMENTS: TRACES OF BENZENE (CARCINOGEN) MAY FORM IF HEATED IN AIR ABOVE 300F/149C. PROVIDE VENTILATION TO CONTROL VAPOR EXPOSURE WITHIN INHALATION GUIDELINES WHEN HANDLLING AT ELEVATED TEMPERATURES. REVIEW THE OSHABENZENE REGULATIONS FOR DETAILED INFORMATION ON SAFE HANDLING REQUIREMENTS.

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SECTION XI - COMMENTS

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ADDITIONAL SARA REGULATORY COMPLIANCE INFORMATION

SEC. 312 HAZARD CLASS: IMMEDIATE.

SEC. 313 NOTIFICATION: NOT APPLICABLE - EITHER NONE PRESENT OR NONE PRESENT IN REGULATED QUANTITIES.

COMMENTS: (CON'T FROM SEC.X)

USE AT HIGH TEMPERATURES MAY EVOLVE OR GENERATE PHENYLHEPTAMETHYLCYCLOTETRA-SILOXANE AND 2,6-CIS-DIPHENYLHEXAMETHYLCYCLOTETRASILOXANE. PROVIDE ADEQUATE VENTILATION TO CONTROL EXPOSURE WITHIN SEC.II GUIDELINES. PERSONNEL SHOULD WEAR ORGANIC VAPOR RESPIRATORS UNTIL WORKPLACE LEVELS HAVE BEEN DETERMINED.

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SECTION XII - COMMENTS

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SUPPLEMENTAL STATE COMPLIANCE INFORMATION

PENNSYLVANIA:	<0.1	97563	0-AMINOAZOTOLUENE(2-AMINO-5-AZOTOLUENE)(OIL YELLOW)
		4485125	LITHIUM STEARATE
		63148527	DIMETHYL, PHENYLMETHYLPOLYSILOXANE, TRIMETHYL-TERMINATED
MASSACHUSETTS:	<0.1	97563	0-AMINOAZOTOLUENE(2-AMINO-5-AZOTOLUENE)(OIL YELLOW)
NEW JERSEY:		4485125	LITHIUM STEARATE
		63148527	DIMETHYL, PHENYLMETHYLPOLYSILOXANE, TRIMETHYL-TERMINATED

THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.

PREPARED BY: PRODUCT SAFETY

LAST REVISION DATE: NOVEMBER 19, 1993

PREVIOUS REVISION DATE: MARCH 12, 1990

DATE: NOVEMBER 20, 1993

(R) INDICATES REGISTERED OR TRADEMARK OF THE DOW CORNING CORPORATION.