

FEB 13 1992

DOW CORNING CORPORATION
 MATERIAL SAFETY DATA SHEET

MATERIAL NAME: MOLYKOTE(R) OX PASTE

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): 2 FLAMMABILITY (NFPA): 1 REACTIVITY (NFPA): 0
 CAS NO: MIXTURE DOW CORNING WARNING CODE: NOT USED
 GENERIC DESCRIPTION: ORGANIC GREASE

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

CAS	INGREDIENT	WT. %	EXPOSURE LIMITS
009042475	MINERAL OIL	59	OBSERVE OIL MIST LIMITS. OSHA PEL AND ACGIH TLV: TWA 5 MG/M3.
007758874	CALCIUM PHOSPHATE	27	OBSERVE PARTICULATES LIMITS. OSHA PEL: TWA 15 MG/M3. TOTAL DUST, 5 MG/M3 RESP. FRACTION. ACGIH TLV: TWA 10 MG/M3.
007620771	12-HYDROXY-LITHIUM STEARATE	5	OBSERVE OSHA PARTICULATES LIMITS ABOVE. ACGIH TLV, STEARATES: TWA 10 MG/M3.
061791535	TALLOW ALKYL TRIETHYLENEDIAMINE OLEATE	5	NOT ESTABLISHED.
009002840	POLYTETRAFLUOROETHYLENE	3	ACGIH TLV FOR DECOMPOSITION PRODUCTS: TWA 1 MG/M3. OSHA PEL NOT ESTABLISHED.
001314102	ZINC OXIDE	2	OSHA PEL: TWA 10 MG/M3 TOTAL DUST, 5 MG/M3 RESP. FRACTION. ACGIH TLV: TWA 10 MG/M3 TOTAL DUST.
001592230	CALCIUM STEARATE	2	OBSERVE SAME LIMITS AS 12-HYDROXY-LITHIUM STEARATE ABOVE.

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SECTION III - EFFECTS OF OVEREXPOSURE

EYE: DIRECT CONTACT MAY BURN EYES, IRRITATE SEVERELY, OR PERMANENTLY INJURE DEPENDING ON EXPOSURE.

SKIN: A SINGLE SHORT EXPOSURE (LESS THAN 24 HOURS) MAY IRRITATE. REPEATED PROLONGED CONTACT (24 TO 48 HOURS) IRRITATES SERIOUSLY, MAY BURN MILDLY.

INHALATION: VAPORS MAY IRRITATE NOSE AND THROAT. ALSO SEE COMMENT.

ORAL: SMALL AMOUNTS TRANSFERRED TO THE MOUTH BY FINGERS DURING USE, ETC., SHOULD NOT INJURE. SWALLOWING LARGE AMOUNTS MAY INJURE SLIGHTLY. ALSO SEE COMMENT.

SECTION III - EFFECTS OF EXPOSURE (CONTINUED)

COMMENT: OVEREXPOSURE TO LITHIUM COMPOUNDS MAY INJURE KIDNEYS. POLYTETRAFLUOROETHYLENE'S DECOMPOSITION PRODUCTS UPON HEATING AT TEMPERATURES ABOVE 392F/200C ARE HIGHLY TOXIC AND HAVE CAUSED "POLYMER FUME FEVER" AND EVEN DEATH FROM INHALING VAPORS, WHICH ALSO MAY CAUSE FLU-LIKE SYMPTOMS THAT DISAPPEAR WITHIN 36-48 HOURS AFTER EXPOSURE.

SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

SKIN: WIPE OFF AND WASH THOROUGHLY WITH NON-ABRASIVE, WATERLESS SKIN CLEANER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF ILL EFFECTS PERSIST.

ORAL: GET MEDICAL ATTENTION.

COMMENT: NONE.

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SECTION V - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): NOT APPLICABLE

AUTOIGNITION: NOT DETERMINED.

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

EXTINGUISHING MEDIA: WATER WATER FOAM 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: SEE COMMENT

COMMENTS: (UNUSUAL HAZARDS) TOXIC FLUORINE COMPOUNDS AND HAZARDOUS NITROGEN OXIDES AND PHOSPHOROUS COMPOUNDS FORM. EVACUATE AREA IN CASE OF OVERHEATING OR FIRE. N.A. = NOT APPLICABLE.

SECTION VI - PHYSICAL DATA

BOILING POINT(AT 760 MM HG): NOT APPLICABLE

SPECIFIC GRAVITY (AT 77 DEG F/25 DEG C): 1.14

MELTING POINT: NOT APPLICABLE

VAPOR PRESSURE (AT 77 DEG F/25 DEG C): NOT APPLICABLE

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 OODR, GREASE, WHITE.

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

STABILITY: STABLE

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

CONDITIONS TO AVOID: DECOMPOSITION TEMPERATURES ABOVE 392F/200C - TOXIC FUMES
EVOLVE.

HAZARDOUS DECOMPOSITION PRODUCTS: METAL OXIDES, FLUORINE COMPOUNDS, PHOSPHOROUS
COMPOUNDS, OXIDES OF NITROGEN, CARBON DIOXIDE, AND TRACES OF INCOMPLETELY
BURNED CARBON PRODUCTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NOT APPLICABLE

COMMENTS: NONE.

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SECTION XII - COMMENTS

SUPPLEMENTAL STATE COMPLIANCE INFORMATION - CAS NO. & COMPONENT NAME

PENNSYLVANIA: 2% 001314132 ZINC OXIDE
3% 009002840 POLYTETRAFLUOROETHYLENE
007620771 12-HYDROXY-LITHIUM STEARATE
007758874 CALCIUM PHOSPHATE
008042475 MINERAL OIL
061791535 TALLOW ALKYL TRIETHYLENEDIAMINE OLEATE
MASSACHUSETTS: 2% 001314132 ZINC OXIDE
NEW JERSEY: 2% 001314132 ZINC OXIDE; #2037
PREVAILING COMPONENTS SAME AS PENNSYLVANIA ABOVE.

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: JACK L. SHENEBERGER
LAST REVISION DATE: JANUARY 18, 1991
PREVIOUS REVISION DATE: NONE
DATE: FEBRUARY 10, 1992

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

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

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 FULL FACE RESPIRATOR.

SKIN: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE. REMOVE CONTAMINATED CLOTHING AND SHOES AS SOON AS PRACTICAL AND CLEAN THOROUGHLY BEFORE REUSE. RUBBER OR PLASTIC GLOVES ARE RECOMMENDED.

INHALATION: USE RESPIRATORY PROTECTION UNLESS LOCAL EXHAUST VENTILATION IS ADEQUATE OR AIR SAMPLING DATA SHOW EXPOSURES ARE WITHIN TLV AND PEL GUIDELINES.

WASTE DISPOSAL METHOD: DOW CORNING SUGGESTS THAT ALL LOCAL, STATE AND FEDERAL REGULATIONS CONCERNING HEALTH AND POLLUTION BE REVIEWED TO DETERMINE APPROVED DISPOSAL PROCEDURES. 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

PROTECTIVE EQUIPMENT:

EYES: USE CHEMICAL WORKER GOGGLES.

SKIN *: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE. REMOVE CONTAMINATED CLOTHING AND SHOES AS SOON AS PRACTICAL AND CLEAN THOROUGHLY BEFORE REUSE. RUBBER OR PLASTIC GLOVES ARE RECOMMENDED.

INHALATION: USE RESPIRATORY PROTECTION UNLESS LOCAL EXHAUST VENTILATION IS ADEQUATE OR AIR SAMPLING DATA SHOW EXPOSURES ARE WITHIN TLV AND PEL GUIDELINES.

VENTILATION:

LOCAL EXHAUST: NONE SHOULD BE NEEDED.

MECHANICAL (GENERAL): RECOMMENDED

SUITABLE RESPIRATOR: DUST/MIST TYPE.

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: AVOID BREATHING VAPOR AND EYE AND SKIN CONTACT. USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY.

SECTION X - SPECIAL PRECAUTIONS

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

OTHER PRECAUTIONS: DO NOT SMOKE GREASE-CONTAMINATED CIGARETTES; IDEALLY, DO NOT HAVE CIGARETTES IN WORK AREAS WHERE GREASE IS USED. POLYTETRAFLUOROETHYLENE'S DECOMPOSITION PRODUCTS ARE HIGHLY TOXIC AS DESCRIBED IN SECTION III. DISCARD CIGARETTES IF CONTAMINATION IS SUSPECTED.

COMMENTS: NONE.

SECTION XI - COMMENTS

ADDITIONAL SARA REGULATORY COMPLIANCE INFORMATION

SEC. 312 HAZARD CLASS: IMMEDIATE AND DELAYED.

SEC. 313 NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SEC. 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND 40 CFR 372:

CAS NO.	CHEMICAL NAME	% BY WT.
NOT APPLICABLE	ZINC COMPOUNDS	2

IMPORTANT: THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.