

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) FIRESTOP SEAL. -GRAY, CAT. NO. 2000
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 USED
GENERIC DESCRIPTION: SILICONE

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

CAS NO.	INGREDIENT	WT. %	EXPOSURE LIMIT
000471341	CALCIUM CARBONATE	53	OSHA PEL: TWA 15 MG/M3 TOTAL DUST, 5 MG/M3 RESPIRABLE FRACTION. ACGIH TLV: TWA 10 MG/M3 TOTAL DUST.
050791872	METHYLVINYL BIS(N-METHYL- ACETAMIDO)SILANE	2	DOW CORNING GUIDE: TWA 1 PPM, BASED ON N-METHYLACETAMIDE(N-MA), FORMED DURING CURING ON EXPOSURE TO WATER OR HUMID AIR.
000068122	DIMETHYLFORMAMIDE(DMF)	1	OSHA PEL-SKIN AND ACGIH TLV-SKIN: TWA 10 PPM.

SECTION III - EFFECTS OF OVEREXPOSURE

EYE: DIRECT CONTACT IRRITATES SLIGHTLY WITH REDNESS AND SWELLING.

SKIN: A SINGLE SHORT EXPOSURE (LESS THAN 24 HRS.) MAY IRRITATE. REPEATED
PROLONGED CONTACT (24 TO 48 HRS.) MAY IRRITATE MODERATELY.

INHALATION: SHORT VAPOR EXPOSURE MAY CAUSE DROWSINESS AND IRRITATE NOSE AND
THROAT. VAPORS MAY INJURE LIVER, KIDNEYS, HEART, LUNGS, TESTES, BONE MARROW,
AND IMMUNE SYSTEM. THE DEGREE OF INJURY WILL DEPEND ON THE CONCENTRATION AND
DURATION OF EXPOSURE.

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

COMMENTS: TOX. STUDIES INDICATE REPEATED PROLONGED OVEREXPOSURE TO N-MA VAPORS
EMITTED DURING CURING CAUSES ADVERSE REPRODUCTIVE EFFECTS IN LAB ANIMALS.
DMF OVEREXPOSURES AND CONSUMPTION OF ALCOHOLIC BEVERAGES MAY CAUSE SKIN
REDDENING. NO INJURY FROM DUST SHOULD OCCUR DURING REASONABLE USE. IF USE
CREATES RESPIRABLE DUST, SOME RESPIRATORY SYSTEM INJURY MAY OCCUR. OTHERWISE,
FULLY CURED SEALANT IS NONHAZARDOUS.

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SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES.

SKIN: WIPE OFF AND FLUSH WITH WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

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

ORAL: GET MEDICAL ATTENTION.

COMMENTS: NONE.

SECTION V - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): CLOSED CUP ABOVE 212F/100C.

AUTOIGNITION: NOT DETERMINED

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

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: HAZARDOUS NITROGEN OXIDES FORM.

COMMENTS: N.D. - NOT DETERMINED.

SECTION VI - PHYSICAL DATA

BOILING POINT(AT 760 MM HG): NOT APPLICABLE

SPECIFIC GRAVITY (AT 77 DEG F/25 DEG C): 1.46

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): ABOVE 1

PERCENT VOLATILE BY WEIGHT (%): LESS THAN 5

EVAPORATION RATE (ETHER = 1): NOT APPLICABLE

SOLUBILITY IN WATER(%): LESS THAN 0.1

ODOR, APPEARANCE, COLOR: SLIGHT ODOR, PASTE-LIKE, GRAY.

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.
WATER, MOISTURE, HUMID AIR - AVOID EXPOSURE UNTIL READY TO USE.

CONDITIONS TO AVOID: AIR OR MOISTURE CAUSES CURING.

HAZARDOUS DECOMPOSITION PRODUCTS: CALCIUM OXIDE, NITROGEN OXIDES, SILICON
DIOXIDE, CARBON DIOXIDE, AND TRACES OF INCOMPLETELY BURNED CARBON PRODUCTS.
ALSO SEE SEC. X.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NOT APPLICABLE

COMMENTS: NONE

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

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: COLLECT AND CONTAIN
FOR SALVAGE OR DISPOSAL.

PROTECTIVE EQUIPMENT:

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

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
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 PROPER PROTECTION -- SAFETY GLASSES, AS A MINIMUM.

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: RECOMMENDED

MECHANICAL (GENERAL): RECOMMENDED

SUITABLE RESPIRATOR: ORGANIC VAPOR 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: USE ONLY WITH ADEQUATE VENTILATION. AVOID BREATHING VAPOR AND PROLONGED SKIN CONTACT, AND AVOID EYE CONTACT. DO NOT TAKE INTERNALLY.

SECTION X - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE BELOW 90F/32C. USE REASONABLE CARE AND CAUTION.

OTHER PRECAUTIONS: DO NOT USE IN POORLY VENTILATED SPACES. PROVIDE ADEQUATE VENTILATION DURING USE TO CONTROL EXPOSURES WITHIN SEC. II LIMITS, OR USE RESPIRATORY PROTECTION.

COMMENTS: CURED FILMS OR ARTICLES MADE FROM THIS PRODUCT MAY FORM TRACES OF FORMALDEHYDE (CARCINOGEN) IF HEATED IN AIR ABOVE 300F/149C. PROVIDE VENTILATION TO CONTROL VAPOR EXPOSURE WITHIN INHALATION GUIDELINES WHEN HANDLING AT ELEVATED TEMPERATURE. REVIEW THE OSHA FORMALDEHYDE REGULATIONS FOR DETAILED INFORMATION ON SAFE HANDLING REQUIREMENTS.

SECTION XI - COMMENT

ADDITIONAL SARA REGULATORY COMPLIANCE INFORMATION

SEC. 312 HAZARD CLASS: IMMEDIATE AND DELAYED

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

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SECTION XII - COMMENT

SUPPLEMENTAL STATE COMPLIANCE INFORMATION

PENNSYLVANIA:	1%	68122	DIMETHYLFORMAMIDE
		471341	CALCIUM CARBONATE
		70131678	POLYDIMETHYLSILOXANE, HYDROXY-TERMINATED
MASSCHUSETTS:	1%	68122	DIMETHYLFORMAMIDE
NEW JERSEY:	1%	68122	DIMETHYLFORMAMIDE; #0759
		471341	CALCIUM CARBONATE
		50791872	METHYL VINYL BIS(N-METHYLACETAMIDO)SILANE
		68952534	DIMETHYL METHYLDIETHYL-N-HYDROXYETHAMINE SILICONE POLYMER
		70131678	POLYDIMETHYLSILOXANE, HYDROXY-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: JACK L. SHENEBERGER
LAST REVISION DATE: JANUARY 28, 1991
PREVIOUS REVISION DATE: SEPTEMBER 26, 1990
DATE: DECEMBER 31, 1991

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