

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 704 DIFFUSION PUMP FLUID
EMERGENCY TELEPHONE NO. (517) 496-5900

SECTION I - GENERAL INFORMATION

MANUFACTURERS NAME: DOW CORNING CORPORATION
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: 3982-82-9 DOW CORNING WARNING CODE: 76
GENERIC DESCRIPTION: SILICONE

SECTION II - HAZARDOUS INGREDIENT

NONE PRESENT % TLV (UNITS):
ONLY THOSE INGREDIENTS LISTED IN THIS SECTION HAVE BEEN DETERMINED TO BE
HAZARDOUS AS DEFINED IN 20 CFR 1910.1200. AN INGREDIENT MARKED WITH AN
ASTERISK(*) IS ALSO LISTED IN 29 CFR 1910.1200(D) #4 AS KNOWN OR SUSPECTED
CARCINOGEN.
COMMENT: NONE

SECTION III - EFFECTS OF OVEREXPOSURE

EYES : MAY CAUSE TEMPORARY DISCOMFORT.
SKIN : SINGLE, PROLONGED EXPOSURE (HOURS) CAUSES NO KNOWN EFFECT. SEVERAL
REPEATED, PROLONGED EXPOSURES MAY CAUSE SLIGHT IRRITATION.
INHALATION: NO EFFECTS EXCEPT VERY SLIGHT IRRITATION OR PAIN TO THE EYES OR
RESPIRATORY PASSAGES AT HIGH TEMPERATURES (428F/220C).
ORAL : AMOUNTS TRANSFERRED TO THE MOUTH BE FINGERS, ETC., DURING NORMAL
OPERATIONS SHOULD NOT CAUSE INJURY.
COMMENT: NO KNOWN ADVERSE CHRONIC HEALTH EFFECTS, BUT UNNECESSARY EXPOSURE
TO ANY CHEMICAL SHOULD BE AVOIDED. THIS PRODUCT, AS WITH ANY CHEMICAL, MAY
ENHANCE ALLERGIC CONDITIONS ON CERTAIN PEOPLE. WE DO NOT KNOW OF ANY
MEDICAL CONDITIONS THAT MIGHT BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

EYES : FLUSH WITH WATER.
SKIN : WIPE OFF AND FLUSH WITH WATER.
INHALATION: NO PROBLEM.
ORAL : NO PROBLEM
COMMENT : NONE

SECTION V - FIRE AND EXPLOSION DATA

FLASH POINT(METHOD USED): OPEN CUP ABOVE 250 DEG.F/121 DEG.C
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 APPRATUS AND
PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN TO DOW CORNING
COMMENTS: N.D. - NOT DETERMINED

SECTION VI - PHYSICAL DATA

BOILING POINT (AT 760 MM HG): ABOVE 300 DEG.F/149 DEG.C.
SPECIFIC GRAVITY (AT 77 DEG.F/25 DEG.C): 1.7
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 VOLUME (%): LESS THAN 5%

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EVAPORATION RATE (ETHER=1): LESS THAN 1
SOLUBILITY IN WATER (%): LESS THAN 0.1%
ODOR, APPEARANCE, COLOR: VERY LITTLE ODOR, LIQUID, SOME COLOR.

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

SECTION VII - REACTIVITY DATA

STABILITY: STABLE
INCOMPATIBILITY(MATERIAL TO AVOID): OXIDIZING MATERIAL CAN CAUSE A REACTION.
CONDITIONS TO AVOID: NOT APPLICABLE
HAZARDOUS DECOMPOSITON PRODUCTS: SILICON DIOXIDE, CARBON DIOXIDE, AND TRACES
OF INCOMPLETELY BURNED CARBON PRODUCTS.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.
CONDITIONS TO AVOID: APPLICABLE

COMMENTS: NONE

SECTION VIII - SPILL, LEAK AND DISPOSAL PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: USE ABSORBENT
MATERIAL TO 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.
INHALATION: NO RESPIRATORY PROTECTION REQUIRED.
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 IS AN OIL IN THE CONTEXT OF THE U.S. CLEAN WATER ACT.
SPILLS TO U.S. SURFACE WATERS, OR TO WATERCOURSES OR SEWERS LEADING TO U.S.
SURFACE WATERS THAT CAUSE A VISIBLE SHEEN MUST BE REPORTED TO THE NAT'L RESP.
CENTER.

SECTION IX - ROUTINE HANDLING PRECAUTIONS
PROTECTIVE EQUIPMENT:
EYES : USE PROPER PRETECTION--SAFETY GLASSES, AS A MINIMUM.
SKIN * : WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE.
INHALATION: NO RESPIRATORY PROTECTION REQUIRED.
VENTILATION: LOCAL EXHAUST: NONE MECHANICAL(GENERAL): RECOMMENDED
SUITABLE RESPIRATOR: NONE SHOULD BE NEEDED.
THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING, USE AT ELEVATED TEMPERA-
TURE MAY REQUIRE ADDED PRECAUTIONS.
* GOOD PRACTICE REQUIRES THAT GROSS AMOUNT OR ANY CHEMICAL BE REMOVED FROM
SKIN AS SOON AS PRACTICAL, ESPECIALLY BEFORE EATING OR SMOKING.
COMMENTS: NONE

SECTION X - SPECIAL PRECAUTIONS
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: USE REASONABLE CARE AND
CAUTION.
OTHER PRECAUTIONS: NONE KNOWN TO DOW CORNING.
COMMENTS: TRACES OF BENZENE, FORMALDEHYDE, AND OTHER THERMAL DECOMPOSITION
PRODUCTS MAY FORM AT TEMPERATURES ABOVE 150 C IN THE PRESENCE OF AIR. PROVIDE
ADEQUATE VENTILATION WHEN HANDLING AT ELEVATED TEMPERATURES.

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 RECOMMEN-
DATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER
THEY ARE APPROPRIATE.

PREPARED BY: JACK L SHENEBERGER

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LAST REVISION DATE : SEPTEMBER 17, 1985

PREVIOUS REVISION DATE: MARCH 11, 1981

DATE : JUNE 19, 1986

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

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D.O.T. ID NO(49 CRF 172.101): N.A.
D.O.T. HAZARD CLASS (49 CFR 172.101): NONE
RCRA HAZARD CLASS*(40 CFR 261): NONE
E.P.A. PRIORITY POLLUTANTS (40 CFR 122.53): NONE

HEALTH (NFPA): 1 FLAMABILITY (NFPA): 1 REACTIVITY (NFPA): 0
CAS. NO.: 3982-82-9 DCWC: 76
GENERIC DESCRIPTION: SILICONE
* IF DISCARDED

SECTION II HAZARDOUS INGREDIENTS

NONE PRESENT %: TLV (UNITS)
%: TLV (UNITS)

SECTION III HEALTH HAZARD DATA HEALTH (NFPA) 1
EFFECTS OF OVEREXPOSURE: MAY CAUSE TEMPORARY DISCOMFORT TO EYES.

THRESHOLD LIMIT VALUE OF PRODUCT: NOT APPLICABLE

EMERGENCY AND FIRST AID PROCEDURES: FLUSH WITH WATER.

SECTION IV FIRE AND EXPLOSION HAZARD DATA FLAMMABILITY (NFPA) 1
FLASH POINT (METHOD USED): OPEN CUP ABOVE 250 F/121 C
FLAMMABLE LIMITS IN AIR, % BY VOLUME: LOWER: NOT APPLICABLE
UPPER: NOT APPLICABLE
EXTINGUISHING MEDIA: CARBON DIOXIDE OR FOAM.
SPECIAL FIRE FIGHTING PROCEDURES: SELF CONTAINED BREATHING APPARATUS AND
PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS.
UNUSUAL FIE AND EXPLOSION HAZARDS: NONE KNOWN TO DOW CORNING.

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SECTION V PHYSICAL DATA

BOILING POINT: ABOVE 300 F/149 C.
SPECIFIC GRAVITY: 1.07
MELTING POINT: NOT APPLICABLE
VAPOR PRESSURE: LESS THAN 5 MM.
VAPOR DENSITY (AIR=1): NOT APPLICABLE
PERCENT VOLATILE BY VOLUME (%): LESS THAN 5%
EVAPORATION RATE (ETHER =1): LESS THAN 1
SOLUBILITY IN WATER (%): LESS THAN 0.1%
FLASH POINT (METHOD USED): OPEN CUP ABOVE 250 F/121 C
ODOR, APPEARANCE, COLOR: VERY LITTLE ODOR, LIQUID, SOME COLOR.

SECTION VI REACITVITY DATA REACTIVITY (NFPA) 0

STABILITY: STABLE
CONDITIONS TO AVOID: NOT APPLICABLE
INCOMPATABILITY (MATERIALS TO VOID): OXIDIZING MATERIAL CAN CAUSE A
REACTION.

HAZARDOUS RECOMPOSITION PRODUCTS: SILICON DIOXIDE, CARBON DIOXIDE, AND
TRACES OF INCOMPLETELY BURNED CARBON PRODUCTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: NOT APPLICABLE

SECTION VII SPILL, LEAK AND DISPOSAL PROCEDURES

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

WASTE DISPOSAL METHOD: DOW CORNING SUGGESTS THAT ALL LOCAL, STATE AND FEDERAL

REGULATIONS CONCERNING HEALTH AND POLLUTION TO REVIEWED TO DETERMINE APPROVED DISPOSAL PROCEDURES. CONTACT DOW CORNING IF THERE ARE ANY DISPOSAL QUESTIONS

D.O.T.(49 CFR 171.8)/E.P.A.(40 CFR 117)SPILL REPORTING INFORMATION

HAZARDOUS SUBSTANCE: NONE RQ: NOT APPLICABLE
CONCENTRATION OF HAZARDOUS SUBSTANCE: NOT APPLICABLE
REPORTABLE QUANTITY OF PRODUCT: NOT APPLICABLE

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SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): NONE SHOULD BE NEEDED.

VENTILATION

LOCAL EXHAUST: NONE SHOULD BE NEEDED.
SPECIAL: NONE KNOWN TO DOW CORNING.
MECHANICAL (GENERAL): RECOMMENDED.
OTHER: NONE KNOWN TO DOW CORNING.

PROTECTIVE GLOVES: NONE SHOULD BE NEEDED.

EYE PROTECTION: PROPER EYE PROTECTION SHOULD BE WORN IN ANY TYPE OF INDUSTRIAL OPERATION.

OTHER PROTECTIVE EQUIPMENT: AS REQUIRED BY YOUR COMPANY.

SECTION IX SPECIAL PRECAUTIONS

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

OTHER PRECAUTIONS: NONE KNOWN TO DOW CORNING.

NONE: NONE

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