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V W R SCIENTIFIC INC  
3745 BAYSHORE BLVD  
BRISBANE, CA 94005

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DOW CORNING CORPORATION  
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 702 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: 68037-71-8 DOW CORNING WARNING CODE: 76  
GENERIC DESCRIPTION: SILICONE

SECTION II - HAZARDOUS INGREDIENT

	%	TLV (UNITS):
NONE PRESENT		

ONLY THOSE INGREDIENTS LISTED IN THIS SECTION HAVE BEEN DETERMINED TO BE HAZARDOUS AS DEFINED IN 29 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

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THESE FOLLOWING 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: SEPTEMBER 18, 1985  
PREVIOUS REVISION DATE: MARCH 11, 1981  
DATE: JUNE 16, 1987

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

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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.

ORAL: AMOUNTS TRANSFERRED TO THE MOUTH BY 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 FOG X, CO2 X, DRY CHEMICAL X, FOAM X, OTHER  
SPECIAL FIRE FIGHTING PROCEDURES: SELF CONTAINED BEATHING APPARATUS 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 (@ 760 MM HG): ABOVE 300 DEG F/149 DEG C.  
SPECIFIC GRAVITY (AT 77 DEG F/25 DEG C): 1.07  
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%  
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.

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SECTION VII - REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY (MATERIAL TO AVOID): OXIDIZING MATERIAL CAN CAUSE A REACTION.  
CONDITIONS TO AVOID: NOT APPLICABLE

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

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR  
CONDITIONS TO AVOID: NOT 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 ESP. CENTER.

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.  
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 TEMPERATURE 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

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 150C IN THE PRESENCE OF AIR. PROVIDE ADEQUATE VENTILATION WHEN HANDLING AT ELEVATED TEMPERATURES.

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EMERGENCY PHONE NO: (517) 496-5900

SECTION I

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MANUFACTURERS NAME: DOW CORNING CORPORATION  
ADDRESS: S SAGINAW RD, MIDLAND, MI 48640

PROPER SHIPPING NAME: (49 CFR 172.101): NONE  
D.O.T. HAZARD NAME (49 CFR 172.101): NONE  
D.O.T. ID NO (49 CFR 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.: 63148-52-7 DCWC 76  
GENERIC DESCRIPTION : SILICONE  
\* IF DISCARDED

SECTION II HAZARDOUS INGREDIENTS

NONE PRESENT

% TLV (UNITS):

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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 DEG F/121 DEG 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 FIRE AND EXPLOSION HAZARDS: NONE KNOWN TO DOW CORNING.

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SECTION V PHYSICAL DATA  
BOILING POINT: ABOVE 300 DEG F/149 DEG 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 DEG F/121 DEG C  
ODOR, APPEARANCE, COLOR: VERY LITTLE ODOR, LIQUID, SOME COLOR.

SECTION VI REACTIVITY DATA REACTIVITY (NFPA) 0  
STABILITY: STABLE  
CONDITIONS TO AVOID: NOT APPLICABLE  
INCOMPATIBILITY (MATERIALS TO AVOID): OXIDIZING MATERIAL CAN CAUSE A REACTION.

HAZARDOUS DECOMPOSITION 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 BE 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.

NOTE: NONE

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