

DATE: 08/11/93 ACCT: 888235-01
 INDEX: 05932224478 CAT NO: S159500

PO NBR: Q D 18721

TENDENCY TO MIGRATE FROM AN INJECTION SITE AND MAY CAUSE A GRANULOMATOUS REACTION.

HEALTH EFFECTS AND FIRST AID

INHALATION:
 SILICONE DC 200 FLUID, 50 CST:
 ACUTE EXPOSURE- INHALATION HAZARD IS NEGLIGIBLE DUE TO LOW VAPOR PRESSURE. ANIMAL STUDIES INDICATE THAT SILICONE OILS ARE ELIMINATED VERY SLOWLY FROM THE LUNGS, BUT THEIR PRESENCE IS NOT EXPECTED TO CAUSE ANY ADVERSE REACTIONS.
 CHRONIC EXPOSURE- INHALATION OF AEROSOLS CONTAINING A POLYDIMETHYLSILOXANE DID NOT ALTER OXYGEN TRANSFER IN DOGS AND DAILY ADMINISTRATION FOR AS LONG AS 28 DAYS DID NOT PRODUCE INFLAMMATORY OR GRANULOMATOUS CHANGES IN THE LUNGS OF RATS.

FIRST AID- REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND AT REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:
 SILICONE DC 200 FLUID, 50 CST:
 ACUTE EXPOSURE- NO SIGNIFICANT IRRITATION RESULTED FROM DERMAL APPLICATION TO RABBITS.
 CHRONIC EXPOSURE- REPEATED DERMAL APPLICATION TO RABBITS DID NOT RESULT IN SIGNIFICANT IRRITATION.

FIRST AID- REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT:
 SILICONE DC 200 FLUID, 50 CST:
 ACUTE EXPOSURE- IN TESTS ON RABBITS, TRANSIENT IRRITATION CLEARED IN 24-48 HOURS. NO CORNEAL DAMAGE WAS DEMONSTRATED. HUMAN EXPERIENCE WITH THESE MATERIALS HAS SHOWN A SIMILAR REPOSE AND IS CHARACTERIZED BY ERYTHEMA OF THE CONJUNCTIVAL MEMBRANES AND IS OFTEN ACCOMPANIED BY EDEMA OF THE EYELIDS. SYMPTOMS USUALLY DISAPPEAR WITHIN 24 HOURS.
 CHRONIC EXPOSURE- REPEATED OR PROLONGED CONTACT MAY CAUSE CONJUNCTIVITIS.

FIRST AID- WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE, OCCASIONALLY LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:
 SILICONE DC 200 FLUID, 50 CST:
 ACUTE EXPOSURE- NO MORTALITIES OCCURRED IN RATS FED 10-50 ML/KG. A LAXATIVE EFFECT SIMILAR TO THAT OF MINERAL OIL WAS OBSERVED AT ALL DOSE LEVELS.
 CHRONIC EXPOSURE- NO DATA IS AVAILABLE FOR THE 50 CST FLUID. IN A STUDY WITH SILICONE DC 200 FLUID, 350 CST, 5 RATS EACH FED 20 DOSES AT LEVELS OF 1.0, 2.0, 5.0, 10.0, AND 20.0 GM/KG IN 28 DAYS GREW AS WELL AS THE CONTROLS AND STUDIES OF GROSS AND MICROSCOPIC PATHOLOGY, BLOOD AND BONE MARROW, REVEALED NO ABNORMALITIES. MICE GIVEN A LIFETIME DIET CONTAINING 0.25 AND 2.5% OF A SILICONE ANTIFOAM AGENT FROM WEANING SHOWED NO SIGNIFICANT TOXIC EFFECT. THE ANTIFOAM AGENT CONTAINED 94% DIMETHYLSILOXANE SILICONE OIL AND A 6% FINELY DIVIDED SILICON DIOXIDE.

FIRST AID- TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION.

ANTIDOTE:
 NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

REACTIVITY

REACTIVITY:
 STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

INCOMPATIBILITIES:
 SILICONE DC 200 FLUID, 50 CST:
 STRONG OXIDIZERS: FIRE AND EXPLOSION HAZARD.

DECOMPOSITION:
 THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF CARBON AND SILICON.

POLYMERIZATION:
 HAZARDOUS POLYMERIZATION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

 CONDITIONS TO AVOID

THIS FLUID IS SENSITIVE TO CONTAMINATION AT ELEVATED TEMPERATURES. CONTAMINATION WITH STRONG ACIDS, BASES OR SOME METALLIC COMPOUNDS AND OXIDIZING AGENTS MAY CHANGE THE FLASHPOINT AND VISCOSITY.

 SPILL AND LEAK PROCEDURES

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MATERIAL SAFETY DATA SHEET

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SUBSTANCE IDENTIFICATION

SUBSTANCE: **SILICONE, DC 200 FLUID, 50 CST**
 CAS-NUMBER 63148-62-9

TRADE NAMES/SYNONYMS:
 S-159; DOW CORNING(R) 200 FLUID, 50 CST; ACC40237

CHEMICAL FAMILY:
 SILICONE

CECLA RATINGS (SCALE 0-3): HEALTH=1 FIRE=1 REACTIVITY=0 PERSISTENCE=3
 NFPA RATINGS (SCALE 0-4): HEALTH=1 FIRE=1 REACTIVITY=0

COMPONENTS AND CONTAMINANTS

COMPONENT: SILICONE, DC 200 FLUID, 50 CST PERCENT: 100
 (POLYDIMETHYLSILOXANE)

CAS# 63148-62-9

OTHER CONTAMINANTS: NONE

EXPOSURE LIMITS:
 NO OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED BY OSHA, ACGIH, OR NIOSH.

PHYSICAL DATA

DESCRIPTION: LIQUID, VERY SLIGHT ODOR BOILING POINT: 300 F (149 C)
 SPECIFIC GRAVITY: 0.98 VAPOR PRESSURE: 5 MMHG @ 20 C
 EVAPORATION RATE: (ETHER=1) 1 SOLUBILITY IN WATER: 0.1%
 SOLVENT SOLUBILITY: MOST ORGANIC SOLVENTS

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD:
 SLIGHT FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

FLASH POINT: 400 F (204 C)(OC) FLAMMABILITY CLASS(OSHA): III B

FIREFIGHTING MEDIA:
 DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM
 (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5).

FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR FOAM
 (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5).

FIREFIGHTING:
 MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK. DO NOT SCATTER SPILLED MATERIAL WITH HIGH-PRESSURE WATER STREAMS. DIKE FIRE-CONTROL WATER FOR LATER DISPOSAL (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5, GUIDE PAGE 31).

USE AGENTS SUITABLE FOR TYPE OF SURROUNDING FIRE. AVOID BREATHING HAZARDOUS VAPORS, KEEP UPWIND.

TOXICITY

SILICONE DC 200 FLUID, 50 CST:
 9.8 GM/KG ORAL-GUINEA PIG TDLO (JIHTAB).
 CARCINOGEN STATUS: NONE
 SILICONE DC 200 FLUID, 50 CST TOXICITY HAS NOT BEEN FULLY QUANTIFIED. IN GENERAL, POLYDIMETHYLSILOXANES ARE RELATIVELY NON-TOXIC. SILICONE HAS A

OCCUPATIONAL SPILL:
ABSORB WITH CLAY, DIATOMACEOUS EARTH, OR OTHER INERT ABSORBENT. PLACE INTO SUITABLE CONTAINERS FOR LATER DISPOSAL. KEEP OUT OF STREAMS, WATERWAYS, AND DRAINAGE SYSTEMS.

PROTECTIVE EQUIPMENT

VENTILATION:
PROVIDE GENERAL DILUTION VENTILATION.

RESPIRATOR:
THE FOLLOWING RESPIRATORS ARE RECOMMENDED BASED ON INFORMATION FOUND IN THE PHYSICAL DATA, TOXICITY AND HEALTH EFFECTS SECTIONS. THEY ARE RANKED IN ORDER FROM MINIMUM TO MAXIMUM RESPIRATORY PROTECTION. THE SPECIFIC RESPIRATOR SELECTED MUST BE BASED ON CONTAMINATION LEVELS FOUND IN THE WORK PLACE. MUST BE BASED ON THE SPECIFIC OPERATION. MUST NOT EXCEED THE WORKING LIMITS OF THE RESPIRATOR AND MUST BE JOINTLY APPROVED BY THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH AND THE MINE SAFETY AND HEALTH ADMINISTRATION (NIOSH-MSHA).

ANY CHEMICAL CARTRIDGE RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE(S) AND A FULL FACEPIECE.

ANY GAS MASK WITH ORGANIC VAPOR CANISTER (CHIN-STYLE OR FRONT- OR BACK-MOUNTED CANISTER), WITH A FULL FACEPIECE.

ANY TYPE 'C' SUPPLIED-AIR RESPIRATOR WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE OR WITH A FULL FACEPIECE, HELMET OR HOOD OPERATED IN A CONTINUOUS-FLOW MODE.

ANY SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:

ANY SELF-CONTAINED BREATHING APPARATUS THAT HAS A FULL FACEPIECE AND IS OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

ANY SUPPLIED-AIR RESPIRATOR THAT HAS A FULL FACEPIECE AND IS OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE IN COMBINATION WITH AN AUXILIARY SELF-CONTAINED BREATHING APPARATUS OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

CLOTHING:
PROTECTIVE CLOTHING NOT REQUIRED. AVOID REPEATED OR PROLONGED CONTACT WITH THIS SUBSTANCE.

GLOVES:
PROTECTIVE GLOVES ARE NOT REQUIRED BUT RECOMMENDED.

EYE PROTECTION:
EMPLOYEE MUST WEAR SPLASH-PROOF OR DUST-RESISTANT SAFETY GOGGLES TO PREVENT EYE CONTACT WITH THIS SUBSTANCE.

EMERGENCY EYE WASH: WHERE THERE IS ANY POSSIBILITY THAT AN EMPLOYEE'S EYES MAY BE EXPOSED TO THIS SUBSTANCE, THE EMPLOYER SHOULD PROVIDE AN EYE WASH FOUNTAIN WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE.

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