FISHER SCIENTIFIC

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SUBSTANCE IDENTIFICATION
CAS-NUMBER 63148-62-9
SUBSTANCE: **SICONE, DC 200 FLUID, 50 CST**
TRADE NAMES/SYNONYMS: S-159; DOW CORNING DC 200 FLUID, 50 CST, ACC04237
CHEMICAL FAMILY: SICONE

CERCLA RATINGS (SCALE 0-9): HEALTH-1, FIRE-1, REACTIVITY-0, PERSISTENCE-3

NPD RATINGS (SCALE 0-4): HEALTH-1, FIRE-1, REACTIVITY-0

COMPONENTS AND CONTAMINANTS
COMPONENT: SICONE, DC 200 FLUID, 50 CST
PERCENT: 100
(CODIMETHYLSILOXANE)

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 (140 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/OCC)
FLAMMABILITY CLASS(OSHA): IIIB
FIREIGHTING MEDIA:
DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM

FOR LARGER FIRES, USE WATER SPRAY, FOAM OR REGULAR FOAM

FIREIGHTING
STORAGE CONTAINER FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK. DO NOT SCATTER
SPILLED MATERIAL WITH HIGH-PRESSURE WATER STREAMS. DIAL 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
SICONE DC 200 FLUID, 50 CST:
9.0 GM/30 ORAL GUINEA PG TDLO (QUATT).
CARCINOGEN STATUS: NONE
S-159; DOW CORNING DC 200 FLUID, 50 CST TOXICITY HAS NOT BEEN FULLY QUANTIFIED. IN
GENERAL, POLYDIMETHYLSILOXANES ARE RELATIVELY NON-TOXIC. SICONE HAS A

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

HEALTH EFFECTS AND FIRST AID

INHALATION:
SICONE DC 200 FLUID, 50 CST:
ACUTE EXPOSURE TO INHALATION HAZARD IS NEGligible DUE TO LOW VAPOR PRESSURE.
NO SIGNS OF INHALED FANGERS HAVE BEEN RECORDED. IN CASE OF INHALATION, A
FAST EXPULSION OF AIR WOULD BE EFFECTIVE. HUMAN EXPERIENCE WITH THESE
MATERIALS IS LACKING. THE MATERIALS ARE NOT TO BE REGARDED AS TOXIC.

CHRONIC EXPOSURE: INHALATION OF AEROSOLS CONTAINING A POLYDIMETHYLSILOXANE
DO NOT PRODUCE INFLAMMATORY OR GRANULOMATOUS REACTIONS IN THE
LUNGS OF RATS.

FIRST AID:
IF EXPOSED TO INHALATION HAZARD, IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND AT REST.
TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:
SICONE 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:
REMOVING CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH AFFECTED
AREA WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER AND
EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL
ATTENTION IMMEDIATELY.

EYE CONTACT:
SICONE 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 IS LACKING. THE MATERIALS ARE NOT TO BE REGARDED AS TOXIC.

FIRST AID:
IF EXPOSED TO INHALATION HAZARD, IF NOSEWORK HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND AT REST.
TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY.

TOXICITY:
SICONE DC 200 FLUID, 50 CST:
ACUTE EXPOSURE - NO SIGNIFICANT IRRITATION OCCURRED IN RATS FED 10-50 MG/KG, A LAXATIVE
EFFECT SIMILAR TO THAT OF MINERAL OIL WAS OBSERVED AT ALL DOSE LEVELS.
NO DATA IS AVAILABLE FOR THE 50 CST FLUID. IN A STUDY WITH SICONE DC 200 FLUID, 50 CST, 5 RATS EACH RECEIVED 15 DOSES AT LEVELS OF
10, 20, 50, 100, AND 200 GM/KG IN 20 DAYS, HEART RATES INCREASED AND BLOOD AND BONE
MINERALIZED TIBIA AND FRACTURES WERE DETECTED IN ALL RATS.

FIRST AID:
IF TOXIC EFFECT IS SEEN, TREAT THE ANIMALS WITH AN ANTIDOTE, IF AVAILABLE.

ANTIDOTE:
NO SPECIFIC ANTIODOT. TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

REACTIVITY
REACTIVITY:
STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.
INCOMPATIBILITIES:
SICONE DC 200 FLUID, 50 CST:
STOD OXIDIZERS, FIRE AND EXPLOSION H AZR.

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

SPILL AND LEAK PROCEDURES

This fluid is sensitive to contamination at elevated temperatures.
Combustion with strong acids, bases, or some metallic compounds and
Oxidizing agents may change the flashpoint and viscosity.
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 WORKPLACE. 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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