MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME: DAVOL, INC. (FORMERLY MEDCHEM PRODUCTS, INC.)
EMERGENCY TEL: (617) 932-5900
ADDRESS: 160 NEW BOSTON STREET, WOBURN, MA 01801

CHEMICAL NAME AND SYNONYMS: AVITENE®, MICROFIBRILLAR COLLAGEN HEMOSTAT, MCH
CAS NUMBER: N/A
NIOSH/RTECS NUMBER: N/A
CERCLA HAZARD RATINGS (SCALE 0-3)
HEALTH - N/A FIRE - N/A REACTIVITY - N/A PERSISTENCE - N/A

SECTION II (COMPONENTS AND CONTAMINANTS

PERCENTAGE: 100% COMPONENT: U.S. BOVINE COLLAGEN

SECTION III (PHYSICAL DATA)

HAZARD DESCRIPTION: THIS MATERIAL IS AN ABSORBABLE TOPICAL HEMOSTATIC AGENT PREPARED AS A DRY, STERILE, FIBROUS, WATER INSOLUBLE PARTIAL HYDROCHLORIC ACID SALT OF PURIFIED EDIBLE BOVINE COLLAGEN.

BOILING POINT:	N/A	MELTING POINT:	N/A
SPECIFIC GRAVITY:	N/A	VAPOR PRESSURE:	N/A
EVAPORATION RATE:	N/A	SOLUBILITY IN WATER:	INSOLUBLE
VAPOR DENSITY:	N/A		

SECTION IV (FIRE AND EXPLOSION HAZARD DATA)

FIRE AND EXPLOSION HAZARD: THIS MATERIAL SHOULD NOT PRESENT A FIRE OR EXPLOSION HAZARD.

FLASH POINT:	N/A	UPPER EXPLOSION LIMIT:	N/A
LOWER EXPLOSION LIMIT:	N/A		
FIRE FIGHTING MEDIA:	USE MEDIA APPROPRIATE FOR SURROUNDING CONDITIONS.		
FIRE FIGHTING:	USE EQUIPMENT APPROPRIATE FOR SURROUNDING CONDITIONS.		
TOXIC GASES PRODUCED:	CARBON DIOXIDE, CARBON MONOXIDE		

SECTION V (HEALTH EFFECTS AND FIRST AID)

TOXICITY:
PRECAUTIONS: AVITENE® (MCH) IS EDIBLE. PROVOCATIVE SKIN TESTS ON HUMAN VOLUNTEERS AND EXPERIENCE IN CLINICAL USE OF THIS PRODUCT FOR OVER 20 YEARS INDICATE THAT THERE IS NO SIGNIFICANT IMMUNOLOGICAL RESPONSE FROM EXPOSURE TO IT. WHEN INTRODUCED INTO INTERNAL WOUNDS IT IS ABSORBED IN APPROXIMATELY SIX WEEKS, PRODUCING MINIMAL TISSUE REACTION.

CARCINOGENICITY: NOT KNOWN.

INHALATION
ACUTE EXPOSURE: MAY PRODUCE BRONCHIAL IRRITATION.
CHRONIC EXPOSURE: NO EFFECTS HAVE BEEN OBSERVED.
FIRST AID: PROVIDE FRESH AIR.

SKIN CONTACT
ACUTE EXPOSURE: HARMLESS
CHRONIC EXPOSURE: NO ILL EFFECTS OBSERVED.
FIRST AID: NOT REQUIRED

EYE CONTACT
ACUTE EXPOSURE: CONJUNCTIVAL IRRITATION AS WITH ANY INERT PARTICULATE FOREIGN BODY.
CHRONIC EXPOSURE: NO EFFECTS OBSERVED.
FIRST AID: FLUSH EYES WITH OVER-THE-COUNTER EYE DROPS, OR COPIOUS AMOUNTS OF WATER.

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SECTION VI (REACTIVITY DATA)

REACTIVITY:	STABLE
INCOMPATIBILITIES:	NONE KNOWN
DECOMPOSITION:	WHEN HEATED TO DECOMPOSITION (128°C) MATERIAL EMITS PUNGENT ODOR WHICH IS NOT HARMFUL.
POLYMERIZATION:	WILL NOT OCCUR.
CONDITIONS TO AVOID:	NONE

SECTION VII (SPILL OR LEAK PROCEDURES)

SPILL: SPILLS MAY OCCUR IN PACKAGE FILL PROCESS. A SURGICAL MASK WILL PREVENT INHALATION OF FLOATING PARTICLES. OTHERWISE THERE IS NO DANGER FROM INHALATION OR OTHER CONTACT WITH FLOATING FIBERS.

DISPOSAL: DISPOSAL OF EXCESS MATERIAL SHOULD BE MADE IN ACCORDANCE WITH EXISTING PRACTICES FOR NON-TOXIC WASTE.

SECTION VIII (SPECIAL PROTECTION INFORMATION DURING MANUFACTURE)

VENTILATION: FILL OPERATIONS ARE CARRIED OUT IN CLASS 10,000 CLEAN ROOM WITH FILTERED AIR CIRCULATION. NO OTHER PRECAUTIONS FOR PROTECTION OF OPERATING PERSONNEL ARE REQUIRED.

FIRE FIGHTING: EXISTING CHEMICAL FIRE FIGHTING PROCEDURES ARE ADEQUATE.

CLOTHING: GOWNS AND SURGICAL MASKS ARE WORN TO PROTECT THE PRODUCT. NO OTHER PRECAUTIONS ARE NEEDED.

GLOVES. STERILE GLOVES ARE WORN TO PROTECT THE PRODUCT

EYE PROTECTION: NOT REQUIRED.

SECTION IX (STORAGE AND HANDLING PRECAUTIONS)

SPECIAL PRECAUTIONS:	STORAGE IN TIGHT CONTAINER AS DEFINED IN UNITED STATES PHARMACOPEIA.
STORAGE CONDITIONS:	AMBIENT TEMPERATURE AND HUMIDITY (SHOULD NOT EXCEED 30°C / 86°F, 65% RH)
OTHER PRECAUTIONS:	DO NOT USE IF POUCH SEAL IS NOT INTACT. AVOID BREATHING SUSPENDED MCH FIBERS.

APPROVED:

MARK IAMPIETRO
DIRECTOR QUALITY ASSURANCE
DAVOL, INC.

JULY, 1997