MATERIAL SAFETY DATA SHEET

SECTION 1. --- --- -- -- -- -- CHEMICAL IDENTIFICATION

CATALOG #: C5138
NAME: COLLAGENASE TYPE IV

SECTION 2. --- --- -- -- -- -- COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 9031-12-1
EC NO: 232-582-9

SECTION 3. --- --- -- -- -- -- HAZARDS IDENTIFICATION

LABEL PRECAUTIONARY STATEMENTS
HARMFUL
MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.
WEAR SUITABLE PROTECTIVE CLOTHING.

SECTION 4. --- --- -- -- -- -- FIRST-AID MEASURES

IF SHALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND
SHOES. CALL A PHYSICIAN.
IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT,
CALL A PHYSICIAN.
IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING
THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SECTION 5. --- --- -- -- -- -- FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
WATER SPRAY.

SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.

SECTION 6. --- --- -- -- -- -- ACCIDENTAL RELEASE MEASURES

WEAR PROTECTIVE EQUIPMENT.
SPILLED MATERIAL SHOULD BE CAREFULLY WIPED UP OR MOISTENED WITH WATER
AND REMOVED.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. --- --- -- -- -- -- HANDLING AND STORAGE

REFER TO SECTION 8.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:
- NIOSH/MSHA-APPROVED RESPIRATOR.
- MECHANICAL EXHAUST.
- CHEMICAL-SAFE RESISTANT GLOVES.
- CHEMICAL SAFETY GOGGLES.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:
- APPEARANCE AND ODOR: SOLID.
- STABILITY: STABLE.
- CONDITIONS TO AVOID: HEAT-SENSITIVE.
- HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: NATURE OF DECOMPOSITION PRODUCTS NOT KNOWN.
- HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

SECTION 10. TOXICOLOGICAL INFORMATION:
- ACUTE EFFECTS: MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
- MAY CAUSE IRRITATION.
- MAY CAUSE ALLERGIC REACTION.
- THE TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

SECTION 11. ECOLOGICAL INFORMATION:
- DATA NOT YET AVAILABLE.

SECTION 12. DISPOSAL CONSIDERATIONS:
- DISPOSE OF THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 13. TRANSPORT INFORMATION:
- CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 14. REGULATORY INFORMATION:
- CONTINUED ON NEXT PAGE
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HARMFUL R 42/43
MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT. S 36
WEAR SUITABLE PROTECTIVE CLOTHING.

SECTION 16. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SIGMA SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

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