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MATERIAL SAFETY DATA SHEET

HELENA LABORATORIES  
1530 Lindbergh Dr./P.O. Box 752  
Beaumont, TX 77704-0752  
USA Toll Free 800-231-5663

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DATE PREPARED: 1/24/1992  
REVISION: 2

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1. IDENTIFICATION:

PRODUCT NAME: REP LD-2 ISOENZYME KIT PART 1 OF 2

PRODUCT NO.: 3078

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2. INGREDIENTS (THE ABOVE KIT CONTAINS THE FOLLOWING ITEMS) :

PRODUCT NUMBER	PRODUCT IDENTIFICATION (LABEL NAME)	COMMENTS
500987	REP LD-2 GEL	NON-HAZARDOUS

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DATE PREPARED: 1/24/1992
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1. IDENTIFICATION:

PRODUCT NAME: REP LD-2 REAGENT PART 2 OF 2

PRODUCT NO: 500995

2. INGREDIENTS (THE ABOVE KIT CONTAINS THE FOLLOWING ITEMS) :

Table with 4 columns: PRODUCT NUMBER, PRODUCT IDENTIFICATION (LABEL NAME), CAS #, and COMMENTS. It lists ingredients like REP LD DILUENT and DL-LACTIC ACID LITHIUM with their respective CAS numbers and percentages.

ATTACHED IS THE MSDS FOR THE ABOVE NAMED HAZARDOUS INGREDIENT.



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4. HEALTH HAZARD DATA:

PRIMARY ROUTE(S) OF ENTRY:

INHALATION? YES SKIN? YES INGESTION? YES

CARCINOGENICITY: NTP? NO IARC? NO

ACUTE EFFECT OF OVEREXPOSURE:

EYES: MAY CAUSE IRRITATION.

SKIN: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE IRRITATION.

INGESTION: MAY BE HARMFUL IF INGESTED. MAY CAUSE IRRITATION.

CHRONIC EFFECTS OF EXPOSURE: THE TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

TOXICITY DATA:

RTECS NO: OJ6311000

ORL-MUS LD50 2100 MG/KG RPTOAN 33,266,70

SCU-MUS LD50 1530 MG/KG RPTOAN 33,266,70

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS SELECTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NIF

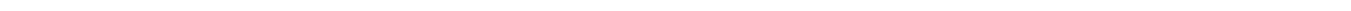
EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: 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.

SKIN CONTACT: IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN.

INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CALL A PHYSICIAN.

INGESTION: IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.



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5. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT (METHOD USED): NA

FLAMMABLE LIMITS: LEL NA UEL NA

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.

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

UNUSUAL FIRE AND EXPLOSION HAZARDS: EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

6. REACTIVITY DATA:

STABILITY: UNSTABLE: STABLE: X

INCOMPATIBILITY (MATERIALS TO AVOID): NONE

HAZARDOUS DECOMPOSITION OF BY-PRODUCTS: TOXIC FUMES OF CARBON MONOXIDE, CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL NOT OCCUR: X

7. SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES. SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE. AVOID RAISING DUST.

WASTE DISPOSAL METHODS: OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS.

8. SPECIAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION (SPECIFY TYPE): APPROPRIATE NIOSH/MSHA-APPROVED

VENTILATION: LOCAL EXHAUST: X MECHANICAL: OTHER:

PROTECTIVE GLOVES: CHEMICAL RESISTANT

EYE PROTECTION: SAFETY GOGGLES

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**8. SPECIAL PROTECTION INFORMATION (CONT)**

OTHER PROTECTIVE EQUIPMENT: **OTHER PROTECTIVE CLOTHING, SAFETY SHOWER AND EYE BATH.**

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**9. SPECIAL PRECAUTIONS:**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: **STORE IN A COOL DRY PLACE.**

OTHER PRECAUTIONS: **AVOID CONTACT AND INHALATION.**

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**10. OTHER INFORMATION: NA**

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The information herein is given in good faith but no warranty, expressed or implied, is made.