
MATERIAL SAFETY DATA SHEET

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

DATE PREPARED: 11/29/2005
REVISION: 4

1. IDENTIFICATION:

PRODUCT NAME: REP LD-30 ISOENZYME KIT PART 1 OF 2

PRODUCT NO.: 3075

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

PRODUCT NUMBER	PRODUCT IDENTIFICATION (LABEL NAME)	COMMENTS
500880	REP LD-30 PLATE	NON-HAZARDOUS

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1. IDENTIFICATION:

PRODUCT NAME: REP LD-30 REAGENT KIT PART 2 OF 2

PRODUCT NO: 500823

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

Table with 4 columns: PRODUCT NUMBER, PRODUCT IDENTIFICATION (LABEL NAME), CAS #, and COMMENTS. It lists two products: 500821 (REP LD-30 REAGENT) and 500822 (REP LD DILUENT). The first product is further detailed with hazardous ingredients: LITHIUM LACTATE (CAS # 27848-80-2, 90.0%) with MSDS ATTACHED.

ATTACHED IS THE MSDS FOR THE ABOVE NAMED HAZARDOUS INGREDIENT.

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1. IDENTIFICATION:

NAME: LITHIUM LACTATE

CAS #: 27848-80-2

SYNONYMS:

LACTIC ACID, LITHIUM SALT *

2. HAZARDOUS INGREDIENTS:

Table with 4 columns: CHEMICAL NAME/COMMON NAME, %, EXPOSURE LIMITS (OSHA PEL, ACGIH TLV). Row 1: DL-LACTIC ACID LITHIUM, 100%, NA, NA.

3. PHYSICAL DATA:

BOILING POINT: > 200°C SPECIFIC GRAVITY (H2O = 1): NIF
VAPOR PRESSURE (MM HG.): 1 mm Hg@20°C MELTING POINT: 75°C
VAPOR DENSITY (AIR = 1): > 1(air=1) SOLUBILITY IN WATER: 50 g/100 mL
APPEARANCE AND ODOR: WHITE POWDER

NA = Not Applicable NE = Not Established
NL = Not Listed NIF = No Information Found

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 CAUSE SKIN IRRITATION.
INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE IRRITATION.
INGESTION: MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT.

CHRONIC EFFECTS OF EXPOSURE: NA

TOXICITY DATA: THE TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

LD50/LC50: NOT AVAILABLE

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NIF

EMERGENCY AND FIRST AID PROCEDURES:

- EYE CONTACT: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER LIDS. GET MEDICAL AID IMMEDIATELY.
SKIN CONTACT: GEL MEDICAL AID. FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.
INGESTION: IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-4 CUPFULS OF MILK OR WATER. GET MEDICAL AID IMMEDIATELY.
INHALATION: GET MEDICAL AID IMMEDIATELY. REMOVE FROM EXPOSURE TO FRESH AIR IMMEDIATELY. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

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.

5. FIRE AND EXPLOSION HAZARD DATA (CONT):

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): STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION BY-PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF LITHIUM

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

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

9. SPECIAL PRECAUTIONS:

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

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

10. OTHER INFORMATION: **NOT REPORTABLE UNDER SARA SECTION 313.**

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