



Material Safety Data Sheet

1. IDENTIFICATION OF PRODUCT AND SUPPLIER

Product name: HDL (Liquid)
Supplier: ClearChem Diagnostics
14752 Franklin Ave., Suite D
Tustin, CA. 92780
714-7348041/714-7348036(fax)

2. CHEMICAL CHARACTERIZATION / INFORMATION ON INGREDIENTS

Emergency Overview: The chemical, physical and toxicological properties of this preparation, pertaining directly to occupational exposures, have not been thoroughly characterized.

Precautionary Statements: Avoid contact with eye and skin. Do not ingest or inhale. The human serum in the preparation was tested by FDA-approved methods and found to be negative for the presence of hepatitis B virus surface antigen (HBsAg), human immunodeficiency virus (HIV) 1&2 and hepatitis C virus (HCV). However, because no test method can provide complete assurance that infectious agents are absent, this product should be

handled as a potentially biohazardous material in accordance with Universal/Standard Precautions.

Regulatory Status: This preparation is not classified as hazardous under U.S. OSHA 29 CFR 1910.1200; EC Directive 1999/45/EC; Canadian R.S. 1985. c.H-

3; U.K. CHIPS 2002 No. 1689; or U.N. GHS ST/SG/AC 10/30. None of the component present in this preparation at concentration equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

3. HAZARDS IDENTIFICATION

Emergency Overview: The HDL-Cholesterol R1 solution of this product is a clear, odorless liquid. R2 solution is a light yellow odorless liquid.

Health Hazards: The components of this product may irritate contaminated tissues by inhalation, skin, or eye contact.

Flammability Hazards: The components of this product are not flammable.

Emergency

Recommendations: Emergency responders must wear personal protective equipment suitable for situation to which they are responding

4. FIRST AID MEASURES

After Inhalation: Supply fresh air; consult doctor in case of complaints.

After Skin Contact: Wash with soap and water and rinse thoroughly. Remove solid clothing.

After Eye Contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire-fighting measures

that suits the environment.

Special Hazards Caused by the Material, its Products of Combustion or Resulting Gases: In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Sulfur oxides (SO_x)

Carbon monoxides (CO)

Protective Equipment: Wear full protective suit and self-contained respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear Personal Protective Equipment (PPE) as indicated in Section 8. Avoid physical contact with material. Wash hands thoroughly after handling.

Environmental Handling: If the reagent enters drain, flush with a large volume of water.

Measures for Cleaning/Collecting: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions.



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7. HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Discard contaminated shoes.
Storage: Store in original container at 2-8°C, protect from direct sunlight.

8. EXPOSURE CONTROLS / PERSONNEL PROTECTION

Exposure Guidelines: There are no ACGIH, NIOSH, OSHA or country specific occupational exposure limits currently established for components present in this preparation at concentration equal to or greater than 1% (0.1% if carcinogen).

Engineering Controls: Preparation and handling of this material should be performed in accordance with Universal/Standard Precautions. Facilities storing or utilizing this preparation should be equipped with an eyewash fountain and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Hand: Protective gloves

Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: R1- Clear; R2- Light yellow

Odor: Odorless

Boiling Point: N/A

Melting Point: N/A

Freezing Point: N/A

Specific Gravity: N/A

Vapor pressure: N/A

Vapor Density: N/A

Solubility: Water soluble

pH: 7.0-7.3

4-Aminoantipyrine:

Appearance: Yellow powder.

Odor: Odorless.

Solubility: Soluble in water.

Specific Gravity: No information found.

pH: No information found.

% Volatiles by volume @ 21C (70F): 0

Boiling Point: No information found.

Melting Point: 107 - 109C (225 - 228F)

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under ordinary conditions of use and storage.

Conditions to Avoid: Avoid heat, flames, sparks, and ignition sources. Excessive heat may damage the product. Avoid prolonged exposure to direct sunlight.

Incompatibilities with Other Materials Avoid strong oxidizing agents, strong acids.

Hazardous Decomposition Products None expected under normal conditions of use.

Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Effects: For the calibrator, the human serum in this preparation presents a risk for exposure to infectious agents.

Chronic Effects: Data indicating the presence or absence of chronic effects from repeat long-term occupational exposure to this preparation is not yet available.

Oral rat LD50: 1700 mg/kg Investigated as a mutagen.

-----\Cancer Lists\----- ---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
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4-Aminoantipyrine (83-07-8)	No	No	None
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12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available for product

