



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name Ultra N-geneous® HDL Cholesterol Reagent #1
Synonym(s) Ultra N-geneous® HDL-c R1; Ultra N-geneous® HDL-c Reagent; HDL Ultra Cholesterol Reagent 1
CAS # Mixture
Kit Number: 6121; 6122; HDCE-70-5955-03
Product Number: 295157; 312168; 70-5950-02; 70-5950-02/B; 70-5950-03; 70-5950-05; 70-5950-06; 80-6247-00; 80-6257-00; 80-6265-00; 80-6271-00; 80-6275-00; 80-6281-00; 80-6283-00
Product description Dilute, aqueous, buffered solution containing detergent and trace enzymes (proteins) and preservative.
Product use Component of the Ultra N-geneous® HDL Cholesterol Reagent assay and the HDL Ultra Cholesterol Reagent assay. For the quantitative measurement of high-density lipoprotein cholesterol (HDL-C) concentration in human serum or plasma. For In Vitro Diagnostic Use Only.

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CHEMTREC (Outside U.S.): +1 703-527-3887

Distributor
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Exton, PA 19341 USA
www.genzymediagnosics.com
Phone: 800-999-6578

2. Hazards Identification

Regulatory status This mixture is not classified as hazardous under U.S. OSHA 29 CFR 1910.1200.
Precautionary statements The chemical, physical and toxicological properties of this mixture have not been thoroughly characterized. Avoid contact with eyes and skin. Do not ingest or inhale. Mixture appearance: clear, pale yellow liquid.
Potential health effects
Inhalation No data available. Although there is no evidence that the enzyme(s) in this mixture induces specific respiratory hypersensitivity, all proteins are potential respiratory allergens and may result in respiratory sensitization in certain individuals after repeated and/or prolonged inhalation exposure, producing mild to severe symptoms similar to pollen allergy or asthma, including mucous membrane or eye irritation, itching of the skin or eyes, sneezing, nasal or sinus congestion, coughing, and tightness in the chest. These symptoms may develop as late as 12 hours after exposure.
Eyes No data available. Eye exposure may cause irritation, redness and itching.
Skin No data available. Skin contact may cause irritation, redness and discomfort.
Ingestion No data available.
Chronic effects No data available.
Target organs Unknown.
Potential environmental effects Unknown.

3. Composition / Information on Ingredients

No hazardous ingredients.

4. First Aid Measures

First aid procedures

Inhalation	If inhaled, move from exposure area to fresh air. Seek medical attention if breathing becomes difficult or if cough or other symptoms develop.
Eye contact	Flush eyes with plenty of tepid water for 15 minutes while separating eyelids with fingers. Remove contact lenses if worn. Obtain medical attention if needed or if symptoms, such as redness or irritation persist.
Skin contact	In case of contact, flush skin with copious amounts of cool water and remove contaminated clothing. Obtain medical attention if needed or if irritation or other symptoms develop.
Ingestion	In case of ingestion, contact a poison control center or physician for instructions.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding fire, such as carbon dioxide, chemical foam, dry chemical or water spray.
Unsuitable extinguishing media	Unknown.

Specific hazards Dilute aqueous solution not considered a fire hazard.

Hazardous combustion products May decompose upon heating to produce corrosive and/or toxic fumes.

Protection of firefighters

Protective equipment and precautions for firefighters Firefighters should wear NIOSH-approved or equivalent Self-Contained Breathing Apparatus and full protective gear.

6. Accidental Release Measures

Personal precautions Wear Personal Protective Equipment (PPE) as indicated in Section 8. Ensure adequate ventilation. Avoid physical contact and aerosol inhalation. Wash hands thoroughly after handling.

Environmental precautions No information available.

Methods for cleaning up Absorb spill with inert material/sorbent. Decontaminate the spill site following standard procedures. Dispose of materials in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

7. Handling and Storage

Handling Follow good laboratory hygiene practices. See Section 8, Engineering Controls. Minimize contact and contamination of personal clothing and skin. Wash hands thoroughly after handling.

Storage Store at 2 to 8°C (36 to 46°F). Do not store with incompatible substances. See Section 10.

8. Exposure Controls / Personal Protection

Exposure guidelines There are no ACGIH, NIOSH or OSHA occupational exposure limits currently established for this mixture or its components at concentrations equal to or greater than 1% (0.1% if carcinogen).

Engineering controls This mixture is not expected to require special ventilation controls. Facilities storing or using this mixture should be equipped with an eyewash fountain and a safety shower.

Personal protective equipment

Respiratory protection	A respirator is not expected to be required under normal conditions of use.
Eye / face protection	Wear appropriate protective chemical safety glasses or goggles.
Skin protection	Wear lab coat or other protective garments. Remove contaminated clothing promptly.
Hand protection	Wear chemical resistant protective gloves.
General	Follow company-specific safety procedures.

9. Physical & Chemical Properties

Physical state	Liquid.
Color	Clear, pale yellow
Odor	Odorless
pH	6.0
Melting point	Not applicable
Freezing point	Not available

Boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Relative density	Not available
Solubility (water)	Water-soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity	Not available

10. Chemical Stability & Reactivity Information

Reactivity	Unknown.
Chemical stability	Stable under ordinary conditions of use and storage. See Section 7.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	There are no physical conditions known to result in a hazardous situation.
Incompatible materials	Avoid strong oxidizing agents, strong acids and bases.
Hazardous decomposition products	None expected under normal conditions of use.

11. Toxicological Information

Routes of exposure	Occupational exposure routes may include eye and skin contact.
Acute effects	No data available.
Skin corrosion/irritation	No data available.
Chronic effects	No data available.
Carcinogenicity	No data available.
Mutagenicity	No data available.
Reproductive effects	No data available.
Teratogenicity	No data available.
Sensitization	No data available.

12. Ecological Information

Ecotoxicity	No data available.
Mobility in environmental media	No data available.
Persistence / degradability	No data available.
Bioaccumulation	No data available.

13. Disposal Considerations

Disposal instructions	Dispose of unused product, spilled substance and waste in accordance with all applicable federal, state, local and provincial environmental and hazardous waste regulations.
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14. Transport Information

DOT

Not regulated as hazardous goods.

15. Regulatory Information

US federal regulations This mixture is a component of an FDA-regulated in vitro diagnostic device.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

16. Other Information

Further information This MSDS has been prepared in accordance with the ANSI Z400.1 format and complies with the U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200.

This document has been completely revised.

MSDS Number 960

Version number 10

Issue date 05-27-2010

Revision date 05-27-2010

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MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name Ultra N-geneous® HDL Cholesterol Reagent #2
Synonym(s) Ultra N-geneous® HDL-c R2; Ultra N-geneous® HDL-c Reagent; HDL Ultra Cholesterol Reagent 2
CAS # Mixture
Kit Number: 6121; 6122; HDCE-70-5955-03
Product Number: 295164; 312175; 70-5952-02; 70-5952-02/B; 70-5952-03; 70-5952-05; 70-5952-06; 80-6241-00; 80-6261-00; 80-6269-00; 80-6273-00; 80-6277-00; 80-6279-00
Product description Dilute, aqueous, buffered solution containing detergent and trace enzyme (protein) and preservative.
Product use Component of the Ultra N-geneous® HDL Cholesterol Reagent assay and the HDL Ultra Cholesterol Reagent assay. For the quantitative measurement of high-density lipoprotein cholesterol (HDL-C) concentration in human serum or plasma. For In Vitro Diagnostic Use Only.

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Distributor
Genzyme Diagnostics
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www.genzymediagnosics.com
Phone: 800-999-6578

2. Hazards Identification

Regulatory status This mixture is not classified as hazardous under U.S. OSHA 29 CFR 1910.1200.
Precautionary statements The chemical, physical and toxicological properties of this mixture have not been thoroughly characterized. Avoid contact with eyes and skin. Do not ingest or inhale. Mixture appearance: clear, light brown liquid.
Potential health effects
Inhalation No data available. Although there is no evidence that the enzyme(s) in this mixture induces specific respiratory hypersensitivity, all proteins are potential respiratory allergens and may result in respiratory sensitization in certain individuals after repeated and/or prolonged inhalation exposure, producing mild to severe symptoms similar to pollen allergy or asthma, including mucous membrane or eye irritation, itching of the skin or eyes, sneezing, nasal or sinus congestion, coughing, and tightness in the chest. These symptoms may develop as late as 12 hours after exposure.
Eyes No data available. Eye exposure may cause irritation, redness and itching.
Skin No data available. Skin contact may cause irritation, redness and discomfort.
Ingestion No data available.
Chronic effects No data available.
Target organs Unknown.
Potential environmental effects Unknown.

3. Composition / Information on Ingredients

No hazardous ingredients.

4. First Aid Measures

First aid procedures

Inhalation	If inhaled, move from exposure area to fresh air. Seek medical attention if breathing becomes difficult or if cough or other symptoms develop.
Eye contact	Flush eyes with plenty of tepid water for 15 minutes while separating eyelids with fingers. Remove contact lenses if worn. Obtain medical attention if needed or if symptoms, such as redness or irritation persist.
Skin contact	In case of contact, flush skin with copious amounts of cool water and remove contaminated clothing. Obtain medical attention if needed or if irritation or other symptoms develop.
Ingestion	In case of ingestion, contact a poison control center or physician for instructions.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding fire, such as carbon dioxide, chemical foam, dry chemical or water spray.
Unsuitable extinguishing media	Unknown.

Specific hazards Dilute aqueous solution not considered a fire hazard.

Hazardous combustion products May decompose upon heating to produce corrosive and/or toxic fumes.

Protection of firefighters

Protective equipment and precautions for firefighters Firefighters should wear NIOSH-approved or equivalent Self-Contained Breathing Apparatus and full protective gear.

6. Accidental Release Measures

Personal precautions Wear Personal Protective Equipment (PPE) as indicated in Section 8. Ensure adequate ventilation. Avoid physical contact and aerosol inhalation. Wash hands thoroughly after handling.

Environmental precautions No information available.

Methods for cleaning up Absorb spill with inert material/sorbent. Decontaminate the spill site following standard procedures. Dispose of materials in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

7. Handling and Storage

Handling Follow good laboratory hygiene practices. See Section 8, Engineering Controls. Minimize contact and contamination of personal clothing and skin. Wash hands thoroughly after handling.

Storage Store at 2 to 8°C (36 to 46°F). Do not store with incompatible substances. See Section 10.

8. Exposure Controls / Personal Protection

Exposure guidelines There are no ACGIH, NIOSH or OSHA occupational exposure limits currently established for this mixture or its components at concentrations equal to or greater than 1% (0.1% if carcinogen).

Engineering controls This mixture is not expected to require special ventilation controls. Facilities storing or using this mixture should be equipped with an eyewash fountain and a safety shower.

Personal protective equipment

Respiratory protection	A respirator is not expected to be required under normal conditions of use.
Eye / face protection	Wear appropriate protective chemical safety glasses or goggles.
Skin protection	Wear lab coat or other protective garments. Remove contaminated clothing promptly.
Hand protection	Wear chemical resistant protective gloves.
General	Follow company-specific safety procedures.

9. Physical & Chemical Properties

Physical state	Liquid.
Color	Clear, light brown
Odor	Odorless
pH	6.0
Melting point	Not applicable
Freezing point	Not available

Boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Relative density	Not available
Solubility (water)	Water-soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity	Not available

10. Chemical Stability & Reactivity Information

Reactivity	Unknown.
Chemical stability	Stable under ordinary conditions of use and storage. See Section 7.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	There are no physical conditions known to result in a hazardous situation.
Incompatible materials	Avoid strong oxidizing agents, strong acids and bases.
Hazardous decomposition products	None expected under normal conditions of use.

11. Toxicological Information

Routes of exposure	Occupational exposure routes may include eye and skin contact.
Acute effects	No data available.
Skin corrosion/irritation	No data available.
Chronic effects	No data available.
Carcinogenicity	No data available.
Mutagenicity	No data available.
Reproductive effects	No data available.
Teratogenicity	No data available.
Sensitization	No data available.

12. Ecological Information

Ecotoxicity	No data available.
Mobility in environmental media	No data available.
Persistence / degradability	No data available.
Bioaccumulation	No data available.

13. Disposal Considerations

Disposal instructions	Dispose of unused product, spilled substance and waste in accordance with all applicable federal, state, local and provincial environmental and hazardous waste regulations.
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14. Transport Information

DOT

Not regulated as hazardous goods.

15. Regulatory Information

US federal regulations This mixture is a component of an FDA-regulated in vitro diagnostic device.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

16. Other Information

Further information

This MSDS has been prepared in accordance with the ANSI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirements of the U.S. OSHA Hazard Communication Standard, Canadian Controlled Products Regulation (CPR), UK Chemical Hazard Information and Packaging Regulations, European Communities REACH Regulation, and UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

MSDS Number 960

Version number 09

Issue date 05-27-2010

Revision date 05-27-2010

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