



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name Ultra N-geneous® HDL Cholesterol Calibrator
Synonym(s) Ultra N-geneous® HDL-c Calibrator; HDL Ultra Cholesterol Calibrator
CAS # Mixture
Product Number: 295171; 80-6448-00; 80-6449-00; CALL-70-5953; HCCE-70-5954; 6272-3
Product description Dry pellet containing human serum and preservative.
Product use For use in the calibration of the Ultra N-geneous® HDL Cholesterol Reagent assay and the HDL Ultra Cholesterol Reagent assay. For In Vitro Diagnostic Use Only.

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2. Hazards Identification

Regulatory status This mixture is not classified as hazardous according to the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

Precautionary statements CAUTION! Avoid contact with eyes and skin. Do not ingest or inhale. The human serum in this mixture was tested by U.S. Food and Drug Administration-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 mixture in accordance with universal/standard precautions. Mixture appearance: pale yellow pellet.

Potential health effects

Inhalation No data available.

Eyes No data available. Eye exposure may cause irritation, redness and watering.

Skin No data available. Skin contact may cause irritation, dryness and redness. Sodium azide may be absorbed through the skin and result in systemic effects.

Ingestion Ingestion of sodium azide may cause nausea, diarrhea, vomiting, headache, slight lowering of blood pressure, abdominal pain, and a general feeling of apprehension and unwellness.

Chronic effects No data available.

Target organs Sodium azide: Cardiovascular and central nervous system.

Potential environmental effects Sodium azide is harmful to aquatic life in very low concentrations.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Sodium azide	26628-22-8	0.3
Non-hazardous and other components below reportable levels		> 90

4. First Aid Measures

General advice In the event of occupational exposure, follow company-specific bloodborne pathogen post-exposure requirements.

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	Immediately 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

Mixture may burn when exposed to sufficient heat.

Hazardous combustion products

Irritating or highly toxic gases may be generated by combustion, including carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x).

Protection of firefighters

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

Personal precautions

Follow universal/standard precautions. Wear Personal Protective Equipment (PPE) as indicated in Section 8. Ensure adequate ventilation. Avoid physical contact and avoid generating or inhaling dust. Wash hands thoroughly after handling.

Environmental precautions

This mixture contains a small amount of sodium azide. Sodium azide is harmful to aquatic organisms and can react with copper, lead, brass or solder in plumbing systems and form potentially explosive metal azides. Prevent mixture from entering the drain and water intakes in the environment. If mixture enters the drain, flush with large amounts of water to prevent azide build up. Follow proper disposal procedures.

Methods for cleaning up

Scoop up released material. Decontaminate the spill site following standard procedures for biohazardous spills. Dispose of waste in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

7. Handling and Storage

Handling

Follow universal/standard precautions. 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 (35 to 46°F). Do not store with incompatible substances; see Section 10.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components

	Type	Value
Sodium azide (26628-22-8)	Ceiling	0.11 ppm
	TWA	0.29 mg/m ³

Engineering controls

Follow universal/standard precautions. 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	Solid.
Color	Pale yellow pellet
Odor	Odorless
pH	Not applicable
Melting point	Not available
Freezing point	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability limits in air, upper, % by volume	Not applicable
Flammability limits in air, lower, % by volume	Not applicable
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	Not available
Solubility (water)	Water-soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not applicable

10. Chemical Stability & Reactivity Information

Reactivity	This mixture contains a small amount of sodium azide, which can react with copper, lead, brass or solder in plumbing systems and form potentially explosive metal azides.
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	
Incompatibilities (NIOSH)	
Sodium azide (26628-22-8)	Acids, metals, water [Note: Over a period of time, sodium azide may react with copper, lead, brass, or solder in plumbing systems to form an accumulation of the HIGHLY EXPLOSIVE compounds of lead azide & copper azide.]
Hazardous decomposition products	None expected under normal conditions of use.

11. Toxicological Information

Routes of exposure	Occupational exposure routes may include eye contact, skin contact and skin absorption.
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Toxicological data

Components

Test Results

Sodium azide (26628-22-8)

Acute Dermal LD50 Rabbit: 20 mg/kg

Acute Oral LD50 Mouse: 27 mg/kg

Acute Oral LD50 Rat: 27 mg/kg

Skin corrosion/irritation	No data available.
Chronic effects	No data available.
Mutagenicity	No data available.
Reproductive effects	No data available.
Teratogenicity	No data available.
Sensitization	No data available.

12. Ecological Information

Ecotoxicological data

Components

Test Results

Sodium azide (26628-22-8)

EC50 Water flea (*Daphnia pulex*): 2.8 - 6.2 mg/l 48 hours

LC50 Bluegill (*Lepomis macrochirus*): 0.68 mg/l 96 hours

Mobility in environmental media

No data available.

Persistence / degradability

No data available.

Bioaccumulation

No data available.

13. Disposal Considerations

Disposal instructions

Do not pour this mixture down the drain. Dispose of unused product, spilled substance and waste in accordance with all applicable federal, state, local and provincial environmental and hazardous waste regulations.

14. Transport Information

DOT

Not regulated as hazardous goods.

15. Regulatory Information

US federal regulations

This mixture is a component of an in vitro diagnostic device regulated by the U.S. Food and Drug Administration.

US CERCLA Hazardous Substances: Listed substance

Sodium azide (26628-22-8) LISTED

US CERCLA Hazardous Substances: Reportable quantity

Sodium azide (26628-22-8) 1000 LBS

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantity

Sodium azide (26628-22-8) 1000 LBS

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Listed substance

Sodium azide (26628-22-8) Listed.

US EPCRA (SARA Title III) Section 312 - Extremely Hazardous: Reporting threshold quantity, lower

Sodium azide (26628-22-8) 500 LBS

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Sodium azide (26628-22-8) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Sodium azide (26628-22-8) Listed.

US OSHA Hazard Communication Standard: Listed substance

Sodium azide (26628-22-8) Listed.

US TSCA Inventory: Registration Status

Sodium azide (26628-22-8) Listed.

CERCLA (Superfund) reportable quantity

Sodium azide: 1000

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

State regulations

US - California Hazardous Substances (Director's): Listed substance

Sodium azide (26628-22-8) Listed.

16. Other Information

Further information	This MSDS was prepared in accordance with the hazard criteria and content requirements of the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).
MSDS Number	966
Version number	07
Issue date	07-07-2010
Revision date	07-07-2010
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