

1. Product and Company Identification

1.1 Product name Beta-hydroxy butyrate Calibrator

1.2 Substance/mixture Mixture CAS # Mixture

Kit number MD-101208

1.3 Recommended product use

Mixture's intended use Diagnostic reagent for IN VITRO quantitative measurement of hemoglobin in urine.

Product restrictions None known

1.4 Details of the supplier of the safety data sheet

Manufacturer information

Corporate Headquarters Diamond Diagnostics Inc.

333 Fiske St., Holliston, MA 01746 United

States of America

www.diamonddiagnostics.com

Telephone +1 (508) 429-0450

Email support@diamonddiagnostics.com

Distributor information

Distributor Headquarters Mission Diagnostics LLC

1 Burton Dr., Meridith, NH 03246

United States of America

Telephone +1 (508) 429-0450

Email support@diamonddiagnostics.com

1.5 Emergency Telephone

Emergency Phone # +1 (508) 429-0450

2. Hazards Identification

GHS- Classification

Classification Skin Irritant, Eye Irritant



2.1 Substance or mixture classification

Physical state Liquid

Appearance Clear to yellow

Emergency overview CAUTION: May cause eye, skin, and respiratory tract irritation. Contains bovine source materials

which should be treated as potentially hazardous and should be handled using good laboratory practices. The bovine material was obtained by USDA or foreign government facilities and has been

found to be free of signs of infectious or contagious disease.

2.2 Label Elements

Signal word None

Hazardous substances No data available



OSHA regulatory status This product is not hazardous according to OSHA 29CFR 1910.1200.

2.3 Potential health effects

Routes of exposureSkin contact. Eye contact.EyesMay cause eye irritationSkinMay cause skin irritation

Inhalation In high concentrations, vapors may be irritating to the respiratory system.

Ingestion If swallowed, may cause discomfort.

Target organs Eyes

Chronic effects Repeated skin contact may cause dermatitis.

Signs and symptoms Direct contact with skin and eyes may cause irritation.

2.4 Potential environmental effects

The product components are not classified as environmentally hazardous. However, this does not eliminate the possibility that large or frequent spills can have a harmful or damaging impact

on the environment.

Hazard Statements

H317 May cause an allergic skin reaction

H319 Causes series eye irritation

Precautionary Statements

P261 Avoid breathing mist/vapors/spray P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and

easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/Information on ingredients

Components:

Chemical name	CAS-No.	Concentration (% w/w)
Sodium Azide	26628-22-8	<0.03%
(Hydrazoic Acid Sodium Salt)		

4. First Aid Measures

4.1 Description of First Aid Measures

Eye Contact In case of eye contact, immediately flush eyes with fresh water for at least 15 minutes while holding

eyelids open. Remove contact lenses immediately if worn by the affected person. Pursue medical

treatment if irritation persists.

Skin Contact In case of skin contact, remove any or all of contaminated clothing, while rinsing the affected skin

with large amounts of water. Pursue medical attention if irritation develops and persists.

InhalationMove to fresh air. Call a physician if symptoms develop or persist.IngestionIf material is ingested, immediately contact a poison control center.Notes to PhysicianProvide general supportive measures and treat symptomatically.

General Advice If you feel unwell, seek medical advice.



4.2 Most important symptoms and effects, both acute and delayed

Eye ContactCauses eye irritationSkin ContactCauses skin irritationInhalationNo data availableIngestionNo data available

5. Fire-Fighting Measures

5.1 Flammable properties This product is not flammable.

5.2 Extinguishing media

Suitable extinguishing media

Extinguish with water spray, carbon dioxide (CO2), dry chemical or material appropriate for the

surrounding fire.

Unsuitable extinguishing media

No limitations are given.

5.3 Protection of firefighters

Specific hazards arising from the chemical

None known

Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

Avoid contaminating surface water with fire extinguishing water.

Hazardous combustion Products

Irritating fumes in fire conditions. Carbon oxides, nitrogen oxides.

6. Accidental Release Measures

6.1 Personal precautions Keep unnecessary personnel away. Wear appropriate protective equipment and clothing

during clean-up. Do not touch damaged containers or spilled material unless wearing

appropriate protective clothing. Ensure adequate ventilation.

6.2 Environmental precautions Do not allow to enter drains, sewers or watercourses.

6.3 Methods for containment and cleaning up

Absorb spillage with non-combustible, absorbent material such as sand, diatomaceous earth, vermiculite or other inert material. Dispose of waste in accordance with all applicable federal,

state, local and provincial environmental regulations, per Section 13.

6.4 Other information Clean up in accordance with all applicable regulations.

7. Handling and Storage

7.1 Safe Handling Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory

equipment. Handle and open container with care.

Hygiene Measures Wash exposed skin thoroughly after handling

7.2 Storage Store at 2-8°C. Store in a closed container away from incompatible materials.

7.3 Specific use See section 1 – Recommended Use



8. Exposure Controls / Personnel

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Azide	0.29 mg/m3	Not listed	Not Listed
26628-22-8			

8.1 Occupational exposure limits

No exposure limits noted for ingredient(s).

Exposure guidelines Follow standard monitoring procedures.

Engineering controls Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of

inhalation of vapors. Provide easy access to water supply and eye wash facilities.

8.2 Personal protective equipment

Eye / face protection Wear appropriate safety glasses, goggles or face shields.

Skin protection Wear lab coat or other protective garments. Wear protective gloves. Remove any

contaminated clothing promptly.

Respiratory protection Under normal conditions, respirator is not required.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Other information Do NOT eat, drink or smoke during use.

Environment Exposure No data available

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

AppearanceLiquidPhysical stateLiquidFormLiquid

Color Clear to yellow

Odor Odorless

Odor threshold

PH

7.0 - 8.0 @ 25°C

Vapor pressure

No data available

Vapor density

No data available

Boiling point

No data available

Viscosity (mm²/s)

No data available

Melting/Freezing point

No data available

Solubility (water) Soluble
Specific gravity 1-1-1

Flash point No data available



Flammability limits in air, upper, % by volume

No data available

Flammability limits in air, lower, % by volume

No data available

No data available

Decomposition temperature No data available **Auto-ignition temperature** No data available **Evaporation rate** No data available **Relative Density** No data available Partition coefficient:

(n-octanol/water)

Explosive properties No data available **Oxidizing properties** No data available

10. Stability and Reactivity

Reactivity No data available 10.1

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Reactions

No data available

10.4 Conditions to avoid No data available

10.5 Incompatible materials Strong oxidizing agents, strong acids or bases. 10.6 **Hazardous polymerization** Hazardous polymerization does not occur

10.7 Hazardous decomposition Products

None known.

11. Toxicological Information

11.1 Information on toxicological effects

Sensitization Not classified.

Acute effects May cause discomfort if swallowed.

Local effects Ingestion may cause irritation and nausea.

Chronic effects No data available. **Target Organ Effects** No data available

Carcinogenicity Not classified to carcinogenicity to humans.

Epidemiology No epidemiological data is available for this product.

Not classified. Mutagenicity Reproductive effects Not classified.

Symptoms and target organs

Direct contact with skin and eyes may cause irritation. Harmful if swallowed.

Additional information No other specific acute or chronic health impact noted.



12. Ecological Information

12.1 Toxicity

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the

environment.

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

12.2 Persistence and degradability

No data is available on the degradability of this product.

12.3 Bioaccumulation/Accumulation

No data available

12.4 Mobility in environmental media

The product is completely soluble in water.

13. Disposal Considerations

13.1 Disposal methods

Disposal instructions Contaminated instruments and surfaces should be disinfected in accordance with

your employer's chemical-specific and universal/standard precautions.

Waste from residues / unused products

Dispose in accordance with all applicable local and national regulations. Avoid releasing unused products into drainage systems and/or into the environment. Empty containers should be

taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT Not regulated as a hazardous material by DOT.

DOR Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

TDG Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200. This mixture is a

component of an in vitro diagnostic device regulated by the U.S. Food and Drug

Administration.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpart. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity (lb.) (40 CFR 302.4)

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 (40 CFR 355, Appendix A) Section 311/312 (40

CFR370)

No

No

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)

Not controlled

Canadian regulationsThis product has been classified in accordance with the hazard criteria of the CPR and the

MSDS contains all the information required by the CPR.

WHMIS status Non-controlled

Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	
United States		
& Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance Not listed.

US. Massachusetts RTK - Substance List

Not regulated.



US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

Mexico regulations This safety data sheet was prepared in accordance with the Official

Mexican Standard (NOM-018-STPS-2000).

16. Other Information

Recommended restrictionsUse in accordance with supplier's recommendations.

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 0

Flammability: 0

Physical hazard: 0

NFPA ratings Health: 0

Flammability: 0
Instability: 0

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in text.