

## 1. Product and Company Identification

<b>Material name</b>	<b>Glucose Color Reagent</b>
<b>Version #</b>	01
<b>Issue date</b>	02-20-2013
<b>Revision date</b>	-
<b>Supersedes date</b>	-
<b>CAS #</b>	Mixture
<b>Product code</b>	220-32
<b>Product use</b>	For the IN VITRO quantitative determination of glucose in serum.
<b>Manufacturer information</b>	
<b>Corporate Headquarters</b>	Sekisui Diagnostics, LLC 4 Hartwell Place, Lexington, MA 02421, USA www.sekisuidiagnostics.com Phone: 800-332-1042 Americas 1-760-476-3962
<b>Emergency Telephone Numbers</b>	Europe, Middle East & Africa +1-760-476-3961 Asia Pacific +1-760-476-3960 Access code 333512

## 2. Hazards Identification

<b>Physical state</b>	Solid.
<b>Appearance</b>	Off-white powder.
<b>Emergency overview</b>	WARNING  Harmful if swallowed or absorbed through skin. Contact with acid liberates toxic gas. Physical and health hazard information on reagent mixtures have not been determined.
<b>OSHA regulatory status</b>	This product is hazardous according to OSHA 29 CFR 1910.1200.
<b>Potential health effects</b>	
<b>Routes of exposure</b>	Inhalation. Ingestion. Skin contact. Eye contact.
<b>Eyes</b>	May cause eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort.
<b>Skin</b>	Harmful if absorbed through skin. May cause skin irritation. Sodium azide may be absorbed through the skin and result in systemic effects.
<b>Inhalation</b>	High concentrations of dust and fumes irritate the throat and respiratory system and cause coughing.
<b>Ingestion</b>	Harmful if swallowed. Exposed individuals may experience vomiting, nausea, and diarrhea. Significant ingestion may cause central nervous system depression, rapid heart rate, shortness of breath, blurred vision and seizures.
<b>Target organs</b>	Eye Skin Central nervous system.
<b>Chronic effects</b>	Chronic exposure to sodium azide may cause adverse effects to the central nervous system.
<b>Signs and symptoms</b>	Ingestion may cause irritation and malaise.
<b>Potential environmental effects</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3. Composition / Information on Ingredients

<b>Components</b>	<b>CAS #</b>	<b>Percent</b>
p-Hydroxybenzoic acid, Sodium Salt	114-63-6	8.5
Sodium azide	26628-22-8	5.3

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First Aid Measures

### First aid procedures

<b>Eye contact</b>	In case of contact, immediately flush eyes with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Get medical attention if irritation persists.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Get medical attention if irritation develops and persists.
<b>Inhalation</b>	Move to fresh air. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

### Notes to physician

Treat symptomatically. Symptoms may be delayed.

### General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire Fighting Measures

### Flammable properties

The product is not flammable.

### Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the surrounding fire.
<b>Unsuitable extinguishing media</b>	None known.

### Protection of firefighters

**Specific hazards arising from the chemical** When heated to decomposition, may produce hydrazoic acid fumes.

**Protective equipment and precautions for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### Fire fighting

#### equipment/instructions

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

### Hazardous combustion products

No data available.

## 6. Accidental Release Measures

### Personal precautions

Avoid dust formation. 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.

### Environmental precautions

Do not allow to enter drains, sewers or watercourses.

### Methods for containment

Absorb spillage with non-combustible, absorbent material.

### Methods for cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Dispose of waste in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

### Other information

Absorb small leaks or spills with sponge, mop up large spills with plenty of soap and water. Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

### Handling

Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin and eyes. Wash thoroughly after handling. Observe good industrial hygiene practices.

### Storage

Store at 2-8°C (35-46°F). Store in a closed container away from incompatible materials.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Sodium azide (CAS 26628-22-8)	Ceiling	0.29 mg/m <sup>3</sup>
		0.11 ppm

**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)**

Components	Type	Value	Form
Sodium azide (CAS 26628-22-8)	Ceiling	0.3 mg/m3	Vapor.
		0.29 mg/m3	
		0.11 ppm	Vapor.

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

Components	Type	Value	Form
Sodium azide (CAS 26628-22-8)	Ceiling	0.29 mg/m3	
		0.11 ppm	Vapor.

**Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)**

Components	Type	Value
Sodium azide (CAS 26628-22-8)	Ceiling	0.29 mg/m3

**Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)**

Components	Type	Value
Sodium azide (CAS 26628-22-8)	Ceiling	0.3 mg/m3
		0.11 ppm

<b>Exposure guidelines</b>	Follow standard monitoring procedures.
<b>Engineering controls</b>	Observe occupational exposure limits and minimize the risk of inhalation of dust and fumes.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Wear approved safety glasses or goggles.
<b>Skin protection</b>	Remove contaminated clothing promptly.
<b>Respiratory protection</b>	In case of inadequate ventilation or risk of inhalation of dust, use a suitable NIOSH approved respirator with an appropriate particulate filter.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

**9. Physical & Chemical Properties**

<b>Appearance</b>	Off-white powder.
<b>Physical state</b>	Solid.
<b>Form</b>	Powder.
<b>Color</b>	Off-white.
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Melting point/Freezing point</b>	Not available.
<b>Solubility (water)</b>	Soluble.
<b>Specific gravity</b>	Not available.
<b>Flash point</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Acids.
<b>Hazardous decomposition products</b>	Thermal decomposition can lead to release of irritating gases and vapors, including hydrazoic acid vapor.
<b>Possibility of hazardous reactions</b>	Contact with acids liberates toxic gas.

## 11. Toxicological Information

### Toxicological data

Components	Species	Test Results
Sodium azide (CAS 26628-22-8)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	20 mg/kg
<i>Oral</i>		
LD50	Rat	27 mg/kg
<b>Sensitization</b>	No data available.	
<b>Acute effects</b>	Harmful if swallowed or absorbed through skin.	
<b>Local effects</b>	May cause skin and eye irritation.	
<b>Chronic effects</b>	Chronic exposure to sodium azide may cause adverse effects to the central nervous system.	
<b>Carcinogenicity</b>	Not classifiable as to carcinogenicity to humans.	
<b>ACGIH Carcinogens</b>		
Sodium azide (CAS 26628-22-8)	A4 Not classifiable as a human carcinogen.	
<b>Epidemiology</b>	No epidemiological data is available for this product.	
<b>Mutagenicity</b>	Not classified.	
<b>Reproductive effects</b>	Not classified.	
<b>Symptoms and target organs</b>	Ingestion may cause irritation and malaise.	
<b>Further information</b>	No other specific acute or chronic health impact noted.	

## 12. Ecological Information

### Ecotoxicological data

Components	Species		Test Results
Sodium azide (CAS 26628-22-8)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	2.8 - 6.2 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.68 mg/l, 96 hours
Ecotoxicity	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.		
Persistence and degradability	No data is available on the degradability of this product.		
Bioaccumulation / Accumulation	Not available.		
Mobility in environmental media	No data available.		

## 13. Disposal Considerations

<b>Waste codes</b>	P105: Sodium Azide
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<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contaminated instruments and surfaces should be disinfected in accordance with your employer's chemical-specific and universal/standard precautions. This preparation 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. If preparation enters drain, flush with a large volume of water to prevent azide build-up.
<b>Waste from residues / unused products</b>	Dispose in accordance with all applicable regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport Information

### DOT

#### Basic shipping requirements:

<b>UN number</b>	UN3077
<b>Proper shipping name</b>	Environmentally hazardous substances, solid, n.o.s. (Sodium azide)
<b>Hazard class</b>	9
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>Additional information:</b>	
<b>Special provisions</b>	8, 146, 335, B54, IB8, IP3, N20, T1, TP33
<b>Packaging exceptions</b>	155
<b>Packaging non bulk</b>	213
<b>Packaging bulk</b>	240

### IATA

<b>UN number</b>	UN3077
<b>UN proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s. (Sodium azide)
<b>Transport hazard class(es)</b>	9
<b>Packing group</b>	III
<b>Environmental hazards</b>	Yes
<b>ERG code</b>	9L
<b>Special precautions for user</b>	Read safety instructions, MSDS and emergency procedures before handling.

### IMDG

<b>UN number</b>	UN3077
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Sodium azide)
<b>Transport hazard class(es)</b>	9
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-A, S-F
<b>Special precautions for user</b>	Read safety instructions, MSDS and emergency procedures before handling.

### TDG

<b>UN number</b>	UN3077
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Sodium azide)
<b>Hazard class</b>	9
<b>Packing group</b>	III
<b>Marine pollutant</b>	Yes
<b>Special provisions</b>	16

## 15. Regulatory Information

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. This mixture is a component of an in vitro diagnostic device regulated by the U.S. Food and Drug Administration.
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#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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

Not regulated.

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

Sodium azide (CAS 26628-22-8) 1000 lbs

**US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity**

Sodium azide (CAS 26628-22-8) 500 lbs

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

Sodium azide (CAS 26628-22-8) 1.0 %

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

Sodium azide (CAS 26628-22-8) Listed.

**CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)**

Sodium azide: 1000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

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

**Section 302 extremely hazardous substance (40 CFR 355, Appendix A)**

No

**Section 311/312 (40 CFR 370)**

Yes

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

Not controlled

**Canadian regulations**

This 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**

Controlled

**WHMIS classification**

D1A - Immediate/Serious-VERY TOXIC

**WHMIS labeling****Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
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)	Yes
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 Hazardous Substances (Director's): Listed substance**

Sodium azide (CAS 26628-22-8) Listed.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Not listed.

**US - New Jersey RTK - Substances: Listed substance**

Sodium azide (CAS 26628-22-8) Listed.

**US. Massachusetts RTK - Substance List**

Sodium azide (CAS 26628-22-8) Listed.

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

Sodium azide (CAS 26628-22-8) 500 lbs

**US. Pennsylvania RTK - Hazardous Substances**

Sodium azide (CAS 26628-22-8) Listed.

**Mexico regulations** This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

**16. Other Information**

**Recommended restrictions** Use in accordance with supplier's recommendations.

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

**HMIS® ratings** Health: 2\*  
Flammability: 0  
Physical hazard: 1

**NFPA ratings** Health: 2  
Flammability: 0  
Instability: 1

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