MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Material name Sorbitol Dehydrogenase Control Level 1

Version # 01

Issue date 01-16-2013

Revision date Supersedes date CAS#

SM-740 Kit number

Product use For in vitro diagnostic use in quality control procedures to monitor the accuracy and precision of

quantitative sorbitol dehydrogenase assays.

Synonym(s) SDH Control Level * SDH Low Level Control * Sorbitol Dehydrogenase (SDH) Control Materials

Manufacturer information

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Access code 333512

2. Hazards Identification

Physical state Solid.

Appearance pale-yellow powder.

Emergency overview WARNING

Causes skin, eye and respiratory tract irritation.

OSHA regulatory status This product is hazardous according to OSHA 29 CFR 1910.1200.

Potential health effects

Routes of exposure Skin contact. Eye contact. Causes eye irritation. **Eyes** Skin Causes skin irritation.

Inhalation Causes respiratory tract irritation. Ingestion May cause discomfort if swallowed.

Target organs Eyes. Skin. Respiratory tract.

Chronic effects No data available.

Signs and symptoms Ingestion may cause irritation and malaise.

Potential environmental effects 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.

3. Composition / Information on Ingredients

Components	CAS#	Percent	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	1185-53-1	90-100	
Sodium azide	26628-22-8	<1	

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

percent by volume.

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4. First Aid Measures

First aid procedures

Eye contact 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.

Skin contact For skin contact flush with large amounts of water while removing contaminated clothing. Get

medical attention if irritation develops and persists.

Inhalation Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Call a physician if symptoms develop or persist.

Ingestion If material is ingested, immediately contact a poison control center. Notes to physician Provide general supportive measures and treat symptomatically.

5. Fire Fighting Measures

Flammable properties The product is not flammable.

Extinguishing media

Suitable extinguishing

media

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

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

surrounding fire.

Unsuitable extinguishing

media

None known.

Protection of firefighters

Specific hazards arising from the chemical

Fire will generate toxic and irritating gases.

Protective equipment and

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

precautions for firefighters

Fire fighting equipment/instructions

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

Methods for containment

Absorb spillage with non-combustible, absorbent material.

Do not allow to enter drains, sewers or watercourses.

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 Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed

container. 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. Avoid inhalation of dust and fumes. 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	Туре	Value	
Sodium azide (CAS 26628-22-8)	Ceiling	0.29 mg/m3	
,		0.11 ppm	

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

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

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

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

Exposure guidelines Follow standard monitoring procedures.

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

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

Personal protective equipment

Eye / face protection Wear approved safety glasses or goggles.

Skin protection Wear lab coat or other protective garments. Remove contaminated clothing promptly.

Respiratory protection In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment

with particle filter.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance pale-yellow powder.

Physical state Solid. **Form** Powder. Color Pale yellow Odor Characteristic. **Odor threshold** Not available. 7 - 8 @ 25°C Ηq Not available. Vapor pressure Not available. Vapor density Not available. **Boiling point** Melting point/Freezing point Not available. Soluble. Solubility (water) Specific gravity Not available. Not available. Flash point Flammability limits in air, Not available. upper, % by volume Flammability limits in air, Not available. lower, % by volume

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Auto-ignition temperature

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Not available.

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Strong oxidizers, strong acids, and strong bases.

Hazardous decomposition

products

No data available.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Species	Test Results
Rabbit	20 mg/kg
Rat	27 mg/kg
	Rabbit

Sensitization Not classified.

Acute effects May cause discomfort if swallowed.

Local effects Causes skin, eye and respiratory tract irritation.

Chronic effects No data available.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

ACGIH Carcinogens

Sodium azide (CAS 26628-22-8) A4 Not classifiable as a human carcinogen.

Epidemiology No epidemiological data is available for this product.

Mutagenicity Not classified. Not classified. Reproductive effects

Symptoms and target organs Ingestion may cause irritation and malaise.

No other specific acute or chronic health impact noted. **Further information**

12. Ecological Information

Ecotoxicological data

Environmental effects

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

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

possibility that large or frequent spills can have a harmful or damaging effect on the environment. 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 / Not available.

Accumulation

Mobility in environmental media

The product is completely soluble in water.

13. Disposal Considerations

Disposal instructions 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.

Waste from residues / unused

products

Dispose in accordance with all applicable regulations.

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14. Transport Information

DOT

Not regulated as a hazardous material by DOT.

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 hazardous according to OSHA 29 CFR 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, 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 - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A) Section 311/312 (40 CFR

Yes

No

370)

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 D2B - Other Toxic Effects-TOXIC

WHMIS labeling



Inventory status

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

Australia Australian Inventory of Chemical Substances (AICS)

Canada Domestic Substances List (DSL) Yes

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Yes

Country(s) or region Inventory name On inventory (yes/no)* Canada Non-Domestic Substances List (NDSL)

China Inventory of Existing Chemical Substances in China (IECSC) Yes European Inventory of Existing Commercial Chemical Europe Yes

Substances (EINECS)

European List of Notified Chemical Substances (ELINCS) Europe No Japan Inventory of Existing and New Chemical Substances (ENCS) Yes Existing Chemicals List (ECL) Korea 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

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

defects or other reproductive harm.

This product does not contain a chemical known to the State of California to cause cancer, birth

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

Sodium azide (CAS 26628-22-8)

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

Not listed.

State regulations

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

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

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: 0

NFPA ratings Health: 2

> Flammability: 0 Instability: 0

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CPH MSDS NA

Yes

Yes