

Product name: GlycoMark
 Document #: MD001--04
 Revision date: 02/04/2016

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name GlycoMark®
 For the quantitative measurement of
 1,5-anhydroglucitol (1,5-AG) in serum or plasma
 For in vitro diagnostic use

Product Description	Product name	Catalog #
	GlycoMark Kit Reagents (Small)	NK-8300
	GlycoMark Calibration Standard	NK-8320
	GlycoMark Controls	NK-8330

Manufacturer Nippon Kayaku Co., LTD.
 Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-0005, Japan

Distributor GlycoMark, Inc.
 805 Third Avenue 17th, Floor New York, NY USA

Emergency telephone number 1-888-744-0221

Section 2: HAZARDS IDENTIFICATION

GHS classification : The products are not classified according to GHS.
 Hazard statements : The products contain small amounts of a hazardous substance.
 Physical and chemical hazards : The products have no fire hazard under normal condition of use.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture : Mixture
 Reagent 1 (Pretreatment reagent): Hazardous substance

Chemical Name	Weight-%	Formula	CAS No
Sodium azide	0.099%	NaN ₃	26628-22-8

Reagent 2 (Coloring reagent): Hazardous substance

Chemical Name	Weight-%	Formula	CAS No
Sodium azide	0.020%	NaN ₃	26628-22-8

Standard: Hazardous substance

Chemical Name	Weight-%	Formula	CAS No
Sodium azide	0.10%	NaN ₃	26628-22-8

Control Low: Hazardous substance

Chemical Name	Weight-%	Formula	CAS No
Sodium azide	0.099%	NaN ₃	26628-22-8

Control High: Hazardous substance

Chemical Name	Weight-%	Formula	CAS No
Sodium azide	0.099%	NaN ₃	26628-22-8

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Section 4: FIRST AID MEASURES

IF INHALED	: Move to fresh air. Call a physician if symptoms develop or persist.
IF ON SKIN	: Wash off with soap and water. Get medical attention if irritation develops and persists.
IF IN EYES	: Rinse with water. Get medical attention if irritation develops and persists.
IF SWALLOWED	: Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Section 5: FIRE FIGHTING MEASURES

Extinguishing media	: Water fog, Foam, Dry chemical powder, Carbon dioxide (CO ₂)
Extinguishing media to avoid	: No information available
Special hazards	: During fire, gases hazardous to health may be formed.
Special fire-fighting procedures	: No information available
Protection of fire-fighters	: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Keep unnecessary personnel away. For personal protection, see section 8.
Environmental precautions	: Avoid release to the environment.
Methods and materials for containment and cleaning up	: Small Spills: Wipe up with absorbent material (e. g. cloth, fleece).

Section 7: HANDLING AND STORAGE

Handling

Technical measures	: Provide adequate ventilation.
Safety handling advice	: Avoid inhalation and contact with skin, eyes, or clothing. Use personal protection recommended in Section 8.

Storage

Safety storage conditions	: 2 - 8°C, Keep container protected from light.
Safety packaging material	: Tightly closed container.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupation exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Sodium Azide (CAS 26628-22-8)	Ceiling	0.29 mg/m ³ 0.11 ppm

Personal protective equipment

Respiratory protection	: Dust mask
Hand protection	: Impermeable protective gloves
Eye protection	: Protective eyeglasses

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Skin and body protection : Long-sleeved work clothes

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

1) Reagent 1 (Pretreatment reagent)

Physical state : Liquid
Color : Clear and colorless
Odor : None
pH : 6 - 7
Flash point : No data available
Boiling point : No data available
Vapor pressure : No data available
Specific gravity : No data available
Auto-ignition temperature : No data available

2) Reagent 2 (Coloring reagent)

Physical state : Liquid
Color : Clear and light yellow or Clear and yellow
Odor : None
pH : 7.5 - 8.5
Flash point : No data available
Boiling point : No data available
Vapor pressure : No data available
Specific gravity : No data available
Auto-ignition temperature : No data available

3) Standard

Physical state : Liquid
Color : Clear and color less
Odor : None
pH : 6 - 8
Flash point : No data available
Boiling point : No data available
Vapor pressure : No data available
Specific gravity : No data available
Auto-ignition temperature : No data available

4) Control Low and Control High

Physical state : Liquid
Color : Clear and colorless or Clear and pale yellow
Odor : None
pH : 6 - 8
Flash point : No data available
Boiling point : No data available
Vapor pressure : No data available

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Specific gravity : No data available

Auto-ignition temperature : No data available

Section 10: STABILITY AND REACTIVITY

Reactivity : The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability : Material is stable under normal conditions. The products contain small amounts of sodium azide. If the products are dried, heating/static discharge/shock may cause an explosion. Sodium azide reacting with strong acid may generate toxic and explosive hydrogen azide. Sodium azide reacting with heavy metals, such as lead or copper, may generate an explosive metal azide compound.

Possibility of hazardous reactions : No dangerous reaction is known under conditions of normal use.

Conditions to avoid : Drying products, Mixing with strong acids, Using containers made of heavy metals, such as lead or copper.

Incompatible material : Strong acids, Heavy metals (Cu, Zn), Strong oxidizing agents

Hazardous decomposition products : Hydrogen azide, Nitrogen, Nitrogen oxides (NO_x)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Components	Oral LD50	Dermal LD50
Sodium azide (CAS No 26628-22-8)	45 mg/kg (Rat)	20 mg/kg (Rabbit)

Skin corrosion / irritation : No data available

Serious eye damage / irritation : No data available

Respiratory or skin sensitization

Respiratory sensitization : No data available

Skin sensitization : No data available

Germ cell mutagenicity : No data available

Carcinogenicity : No data available

Reproductive toxicity : No data available

Specific target organ toxicity-single exposure : No data available

Specific target organ toxicity-repeated exposure : No data available

Aspiration hazard : No data available

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Section 12: ECOLOGICAL INFORMATION

Ecotoxicological data

Components	EC50	
	Species	Test results
Sodium azide (CAS 26628-22-8)	Green algae (Pseudokirchneriella subcapitata)	348 µg/L, 96 hours

Ecotoxicity : No data available
 Persistence and degradability : No data available
 Bioaccumulation : No data available
 Mobility in soil : No data available
 Hazard to the ozone layer : No data available

Section 13: DISPOSAL CONDITIONS

Residual waste : Dispose of the residual waste in accordance with local/regional/national/international regulations. Sodium azide reacting with lead or copper pipes may generate an explosive metal azide compound. When disposing the residual waste down a sink, a large amount of water should be used to flush the pipes. If using a large amount of water to wash, avoid release of contaminated water directly to the environment without appropriate waste water treatment.

Contaminated packaging : Wash with a large amount of running water, and dispose of the packaging in accordance with local /regional/national/international regulations. If using a large amount of water to wash, avoid release of contaminated water directly to the environment without appropriate waste water treatment.

Section 14: TRANSPORT INFORMATION

IATA : Not regulated as dangerous goods.
 IMDG : Not regulated as dangerous goods.
 Transport in bulk according to Annex II of MARPOL 73 /78 and the IBC Code : Not established.
 National regulations : Refer to regulations in section 15 for domestic transportation.
 Transport temperature : 2 - 8°C
 Transport special safety measures and conditions : Make sure that there are no leaks or damage to the container prior to transport. When loading, do not drop or break, and protect from crushing or falling. Refer to regulations listed in section 15 for domestic transportation.

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Section 15: REGULATORY INFORMATION

Industrial Safety and Health Act

Specified substances regulation

- Class 1 designated chemical substances : Not regulated.
- Class 2 designated chemical substances : Not regulated.
- Class 3 designated chemical substances : Not regulated.

Organic solvent regulation

- Class 1 organic solvents : Not regulated.
- Class 2 organic solvents : Not regulated.
- Class 3 organic solvents : Not regulated.

Notifiable substances : Not regulated.

Labeling substances : Not regulated.

Poisonous and Deleterious Substances Control Act

Specified poisonous substances : Not regulated.

Poisonous substances : Not regulated.

Deleterious substances : Not regulated.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Class I specified chemical substances : Not regulated.

Class II specified chemical substances : Not regulated.

Monitoring chemical substances : Not regulated.

Priority Assessment Chemical Substances (PACs)
: Not regulated.

Law concerning Pollutant Release and Transfer Register

Specified class 1 substances (substance name, ordinance number and content)
: Not regulated.

Class 1 substances (substance name, ordinance number and content)
: Not regulated.

Class 2 substances (substance name, ordinance number and content)
: Not regulated.

Fire Service Act : No data available

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule
: Not regulated.

Goods Marine Transport and Storage Rule : Not regulated.

Air Law, Enforcement Rule : Not regulated.

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Section 16: OTHER INFORMATION

Bibliography

ACGIHACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits
Japan Chemical Industry Association (JCIA) GHS Guideline, June 2012
JIS Z 7252: 2014 Classification of chemicals based on “Globally Harmonized System of Classification and Labelling of Chemicals (GHS)”
JIS Z 7253: 2012 Hazard communication of chemicals based on GHS – Labelling and Safety Data
National Institute of Technology and Evaluation

The above descriptions are based on the documents and information obtained up to the present time, but data and evaluation including content, physicochemical properties, and hazardous properties, etc. are not guaranteed. Care should be taken in handling, as hazardous properties are not fully characterized. The user is responsible for following safety precautions and applicable local/regional/national/international regulations. Appropriate safety measures should be carried out upon any special use other than normal, routine use, as the above descriptions are relevant only to normal, routine use.