

SAFETY DATA SHEETS

This SDS packet was issued with item:

078715518

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078714864 078920090

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078329639 078359586 078468886 078683047



Becton, Dickinson and Company
BD, Franklin Lakes, NJ 07417 USA
www.bd.com

Version: 1.0
Revision Date: 03/14/2016

Product name: TUBE MICRO W/MICROGARD LIHEP GN
Product No.: 365965

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SAFETY DATA SHEET

1. Identification

Product name: TUBE MICRO W/MICROGARD LIHEP GN
Product No.: 365965

Other means of identification

SDS number: 088100181138

Recommended use and restriction on use

Recommended use: Scientific and industrial laboratory use. For In Vitro Diagnostic Use.
Restrictions on use: For External Use Only

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: BD Diagnostics, Preanalytical Systems
Address: 1 Becton Drive
Franklin Lakes, NJ07417
Telephone: 1 800 631 0174
Fax: 1 201 847 4866
Contact Person: Technical Services

Emergency telephone number: ChemTrec 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Not classified

Label Elements

Hazard Symbol: No symbol
Signal Word: No signal word.
Hazard Statement: not applicable
Precautionary Statement: not applicable

Other hazards which do not result in GHS classification: None.

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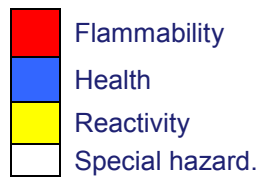
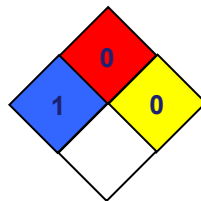
HMIS Hazard ID

Health	1
Flammability	0
Physical Hazards	0
PERSONAL PROTECTION	B

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Heparin, lithium salt		9045-22-1	100%

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

Composition Comments: The components are not hazardous or are below required disclosure limits.

4. First-aid measures

Ingestion: Rinse nose, mouth and throat with water. Contact physician if larger quantity has been consumed. However: Due to the small packaging the risk of ingestion is minimal.

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. However: Under normal conditions of intended use, this material is not expected to be an inhalation hazard.



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Skin Contact: Wash skin with soap and water. Get medical attention if irritation persists after washing. However: Due to the small packaging the risk of skin contact is minimal.

Eye contact: Rinse immediately with plenty of water. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention promptly if symptoms occur after washing. However: Due to the small packaging the risk of eye contact is minimal.

Most important symptoms/effects, acute and delayed Symptoms No data available.

Indication of immediate medical attention and special treatment needed

Treatment No data available.

5. Fire-fighting measures

General Fire Hazards: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, alcohol-resistant foam, dry powder, carbon dioxide.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: None known.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No unusual fire or explosion hazards noted.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: No special precautionary health measures should be needed under anticipated conditions of use.



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Methods and material for containment and cleaning up: Sweep or scoop up and remove. Avoid dust formation.

Environmental Precautions: Do not release into the environment.

7. Handling and storage

Precautions for safe handling: Wear necessary protective equipment. However: Due to the small size of the container, and the intended use by trained medical professionals, risk of exposure is low.

Conditions for safe storage, including any incompatibilities: Keep containers tightly closed. Keep the container in a safe place. Keep in a cool, well-ventilated place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Appropriate Engineering Controls

Observe good industrial hygiene practices. However: Due to the small size of the container, and the intended use by trained medical professionals, risk of exposure is low.

Individual protection measures, such as personal protective equipment

General information: Due to the small size of the container, and the intended use by trained medical professionals, risk of exposure is low. However: No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

Eye/face protection: Avoid contact with eyes and prolonged skin contact. Protective gloves and goggles must be used if there is a risk of direct contact or splash.

Skin Protection

Hand Protection: Use suitable protective gloves if risk of skin contact.

Other: No data available.

Respiratory Protection: Avoid breathing dust.

Hygiene measures: Observe good industrial hygiene practices.

9. Physical and chemical properties



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Appearance

Physical state:	solid solid
Form:	Powder Powder
Color:	White, White
Odor:	Odorless, Odorless
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	The physical-chemical properties of this material have not been fully investigated. The physical-chemical properties of this material have not been fully investigated.
Initial boiling point and boiling range:	The physical-chemical properties of this material have not been fully investigated. The physical-chemical properties of this material have not been fully investigated.
Flash Point:	not applicable not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	The physical-chemical properties of this material have not been fully investigated. The physical-chemical properties of this material have not been fully investigated.
Vapor density:	No data available.
Relative density:	The physical-chemical properties of this material have not been fully investigated. The physical-chemical properties of this material have not been fully investigated.
Solubility(ies)	
Solubility in water:	The physical-chemical properties of this material have not been fully investigated. The physical-chemical properties of this material have not been fully investigated.
Solubility (other):	not applicable not applicable
Partition coefficient (n-octanol/water):	The physical-chemical properties of this material have not been fully investigated. The physical-chemical properties of this material have not been fully investigated.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	Not determined. Not determined.



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10. Stability and reactivity

Reactivity:	Stable under normal temperature conditions and recommended use.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions	Material is stable under normal conditions.
Conditions to avoid:	Avoid conditions which create dust.
Incompatible Materials:	Strong oxidizers
Hazardous Decomposition Products:	Material is stable under normal conditions.

11. Toxicological information

Information on likely routes of exposure

Ingestion:	Due to the small packaging the risk of ingestion is minimal.
Inhalation:	None under normal conditions. However: Dust may irritate respiratory system.
Skin Contact:	Skin contact may cause: Skin irritation.
Eye contact:	May irritate eyes. Due to the small packaging the risk of eye contact is minimal.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion:	However, ingestion may cause nausea, headache, dizziness and intoxication.
Inhalation:	No specific symptoms noted.
Skin Contact:	Skin irritation is not anticipated when used normally.
Eye contact:	May cause minor irritation on eye contact.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral	
Product:	Not classified for acute toxicity based on available data.
Dermal	
Product:	Not classified for acute toxicity based on available data.



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Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: May cause skin irritation.

Serious Eye Damage/Eye Irritation

Product: May cause minor irritation on eye contact.

Respiratory or Skin Sensitization

Product: Not known.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.



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12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: The physical-chemical properties of this material have not been fully investigated.
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Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

Heparin, lithium salt No data available.

Other Adverse Effects: No data available.

13. Disposal considerations

Disposal instructions: Dispose of waste and residues in accordance with local authority requirements.

Contaminated Packaging: No data available.

14. Transport information

DOT

Special precautions for user: –
Not regulated.

IMDG

Special precautions for user: –
Not regulated.

IATA

Special precautions for user: –
Not regulated.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):
None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Not listed.



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SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Heparin, lithium salt	500 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

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

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

16. Other information, including date of preparation or last revision

Issue Date: 03/14/2016

Revision Information

Version #: 1.0

Further Information: This material is not considered hazardous by the OSHA Hazard Communication Standard, OSHA 29 CFR 1910.1200.



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Disclaimer:

Disclaimer:

The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.