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# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
360072	TUBE LIHEP PLH 13X75 2.0 USI GN CE	BD Vacutainer® LH (Lithium Heparin) 34 I.U. Plus Blood Collection Tubes
365308	TUBE LIHEP PLH 13X75 4.0 BC GN	BD Vacutainer® LH 68 I.U. Plus Blood Collection Tubes
367526	TUBE LIHEP PLH 16X100 10.0 PLBL GN	BD Vacutainer® LH 170 I.U. Plus Blood Collection Tubes
367883	TUBE LIHEP PLH 13X75 4.0 BLBLCE GN	BD Vacutainer® LH 68 I.U. Plus Blood Collection Tubes
367885	TUBE LIHEP PLH 13X100 6.0 BLBLCE GN	BD Vacutainer® LH 102 I.U. Plus Blood Collection Tubes
368272	TUBE LIHEP PLH 13X75 2.0 SLBL	BD Vacutainer® LH 34 I.U. Plus Blood Collection Tubes
368494	TUBE LIHEP PLH 13X75 2.0 PLCE GN	BD Vacutainer® LH (Lithium Heparin) 34 I.U. Plus Blood Collection Tubes
368495	TUBE LIHEP PLH 13X75 2.0 BLCE GN	BD Vacutainer® LH 34 I.U. Plus Blood Collection Tubes
368496	TUBE LIHEP PLH 13X75	BD Vacutainer® LH 68 I.U. Plus

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	4.0 SLBL GN	Blood Collection Tubes
368884	TUBE LIHEP PLH 13X75 4.0 PLBLCE GN	BD Vacutainer® LH (Lithium Heparin) 68 I.U. Plus Blood Collection Tubes
368886	TUBE LIHEP PLH 13X100 6.0 PLBLCE GN	BD Vacutainer® LH (Lithium Heparin) 102 I.U. Plus Blood Collection Tubes
368889	TUBE LIHEP PLH 13X100 6.0 SLBLCE GN	BD Vacutainer® LH 102 I.U. Plus Blood Collection Tubes
360071	TUBE LIHEP PLH 13X75 4.0 USI GN CE	BD Vacutainer® LH 68 I.U. Plus Blood Collection Tubes
360087	TUBE LIHEP PLH 16X100 10.0 USI GN CE	BD Vacutainer® LH 170 I.U. Plus Blood Collection Tubes
367197	TUBE LIHEP PLH 13X100 6.0 USI GN CE	BD Vacutainer® LH (Lithium Heparin) 102 I.U. Plus Blood Collection Tubes

#### Additional identification

**Chemical name:** Heparin, lithium salt

**Chemical formula:** -

**INDEX No.** -

**CAS-No.** 9045-22-1

**EC No.** -

**REACH Registration No.**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses:** Scientific and industrial laboratory use. For In Vitro Diagnostic Use.

**Uses advised against:** For External Use Only

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer

BD, Integrated Diagnostic Solutions  
Belliver Industrial Estate

**Telephone:** 44 0 1752 701281

**Fax:** 44 1752 788308



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Plymouth, Devon PL6 7BP  
United Kingdom

**Contact Person:** Safety and Environmental Officer

**E-mail:** productcomplaints@bd.com

**1.4 Emergency telephone number:** CHEMTREC +001-703-527-3887 (International)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

Not classified

### 2.2 Label Elements

Not applicable

### 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

**General information:** No hazardous ingredients.

**REACH Registration No.:** No data available.

**M-Factor:** No data available.

**Purity:** 100%

## SECTION 4: First aid measures

### General:

No recommendation given, but first aid may still be required in case of accidental exposure of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

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#### 4.1 Description of first aid measures

- Inhalation:** Move into fresh air and keep at rest. Get medical attention if symptoms occur. Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
- Eye contact:** If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor. Due to the small packaging the risk of eye contact is minimal.
- Skin Contact:** Wash skin with soap and water. Due to the small packaging the risk of skin contact is minimal.
- Ingestion:** Rinse mouth thoroughly. Get medical attention if symptoms occur. Not likely, due to the form of the product.

#### 4.2 Most important symptoms and effects, both acute and delayed:

No data available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Hazards:** No data available.
- Treatment:** Get medical attention if symptoms occur.

### SECTION 5: Firefighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

#### 5.1 Extinguishing media Suitable extinguishing media:

Water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.

#### Unsuitable extinguishing media:

None known.

#### 5.2 Special hazards arising from the substance or mixture:

None known.

#### 5.3 Advice for firefighters



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**Special fire fighting  
procedures:**

No unusual fire or explosion hazards noted.

**Special protective  
equipment for fire-  
fighters:**

No specific precautions.

## **SECTION 6: Accidental release measures**

**6.1 Personal precautions,  
protective equipment  
and emergency  
procedures:**

No special precautionary health measures should be needed under anticipated conditions of use. Non-hazardous substance.

**6.2 Environmental  
Precautions:**

Do not release into the environment.

**6.3 Methods and material  
for containment and  
cleaning up:**

Sweep or scoop up and remove. No specific clean-up procedure noted.

**6.4 Reference to other  
sections:**

No data available.

## **SECTION 7: Handling and storage:**

**7.1 Precautions for safe  
handling:**

Wear appropriate personal protective equipment. Low hazard for recommended handling by trained personnel.

**7.2 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.

**7.3 Specific end use(s):**

No data available.

## **SECTION 8: Exposure controls/personal protection**

**8.1 Control Parameters  
Occupational Exposure Limits**

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None of the components have assigned exposure limits.

### Biological Limit Values

None.

## 8.2 Exposure controls

**Appropriate Engineering Controls:** Observe good industrial hygiene practices. Low hazard for recommended handling by trained personnel.

### Individual protection measures, such as personal protective equipment

**General information:** 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:** Not relevant, due to the form of the product.

**Hygiene measures:** Observe good industrial hygiene practices.

**Environmental Controls:** No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state:** Solid  
**Form:** Powder  
**Color:** White  
**Odor:** Odorless

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<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting Point:</b>	No data available.
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	No data available.
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%):</b>	No data available.
<b>Flammability Limit - Lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	No data available.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>SADT:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

## 9.2 Other information

<b>Molecular weight:</b>	No data available.
<b>VOC Content:</b>	No data available.
<b>Bulk density:</b>	No data available.
<b>Dust Explosion Limit, Upper:</b>	No data available.
<b>Dust Explosion Limit, Lower:</b>	No data available.
<b>Dust Explosion Description</b>	No data available.
<b>Number Kst:</b>	
<b>Minimum ignition energy:</b>	No data available.
<b>Minimum ignition temperature:</b>	No data available.
<b>Metal Corrosion:</b>	No data available.

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## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Material is stable under normal conditions.
<b>10.2 Chemical Stability:</b>	Material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Material is stable under normal conditions.
<b>10.4 Conditions to avoid:</b>	None under normal conditions.
<b>10.5 Incompatible Materials:</b>	None under normal conditions.
<b>10.6 Hazardous Decomposition Products:</b>	Material is stable under normal conditions.

## SECTION 11: Toxicological information

**General information:** Under normal conditions of intended use, this material does not pose a risk to health.

### Information on likely routes of exposure

**Inhalation:** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

**Ingestion:** Due to the small packaging the risk of ingestion is minimal.

**Skin Contact:** Due to the small packaging the risk of skin contact is minimal.

**Eye contact:** Due to the small packaging the risk of eye contact is minimal.

### 11.1 Information on toxicological effects

#### Acute toxicity

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



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**Dermal**

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

**Inhalation**

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

**Repeated dose toxicity**

**Product:** No data available.

**Skin**

**Corrosion/Irritation:**

**Product:** No data available.

**Serious Eye  
Damage/Eye  
Irritation:**

**Product:** No data available.

**Respiratory or Skin  
Sensitization:**

**Product:** No data available.

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

**Reproductive toxicity**

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**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.

<b>SECTION 12: Ecological information</b>
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**12.1 Toxicity**

**Acute toxicity**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Chronic Toxicity**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

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### **Toxicity to Aquatic Plants**

**Product:** No data available.

## **12.2 Persistence and Degradability**

### **Biodegradation**

**Product:** No data available.

### **BOD/COD Ratio**

**Product** No data available.

## **12.3 Bioaccumulative potential**

**Product:** No data available.

## **12.4 Mobility in soil:**

**Product:** No data available.

## **12.5 Results of PBT and vPvB assessment:**

**Product:** No data available.

## **12.6 Other adverse effects:**

No data available.

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

**General information:** No data available.

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

## **SECTION 14: Transport information**

### **ADR**

- 14.1 UN Number: Not regulated.  
14.2 UN Proper Shipping Name: Not regulated.  
14.3 Transport Hazard Class(es)



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Class:	Not regulated.
Label(s):	Not regulated.
Hazard No. (ADR):	Not regulated.
Tunnel restriction code:	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for user:	Not regulated.

#### **ADN**

14.1 UN Number:	Not regulated.
14.2 UN Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es)	
Class:	Not regulated.
Label(s):	Not regulated.
Hazard No. (ADR):	Not regulated.
Tunnel restriction code:	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for user:	Not regulated.

#### **RID**

14.1 UN Number:	Not regulated.
14.2 UN Proper Shipping Name	Not regulated.
14.3 Transport Hazard Class(es)	
Class:	Not regulated.
Label(s):	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.

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14.6 Special precautions for user: Not regulated.

#### **IMDG**

14.1 UN Number: Not regulated.  
14.2 UN Proper Shipping Name: Not regulated.  
14.3 Transport Hazard Class(es)  
Class: Not regulated.  
Label(s): Not regulated.  
EmS No.: Not regulated.  
14.4 Packing Group: Not regulated.  
14.5 Environmental Hazards: Not regulated.  
Marine Pollutant: Not regulated.  
14.6 Special precautions for user: Not regulated.

#### **IATA**

14.1 UN Number: Not regulated.  
14.2 Proper Shipping Name: Not regulated.  
14.3 Transport Hazard Class(es):  
Class: Not regulated.  
Label(s): Not regulated.  
14.4 Packing Group: Not regulated.  
14.5 Environmental Hazards: Not regulated.  
Marine Pollutant: Not regulated.  
14.6 Special precautions for user: Not regulated.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Not applicable

### **SECTION 15: Regulatory information**

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### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

#### **EU Regulations**

**Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:** none

**Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:** none

**Regulation (EC) No. 850/2004 on persistent organic pollutants:** none

**Regulation (EC) No. 649/2012 Import and export of dangerous chemicals:** none

**EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):** none

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:** none

**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:** none

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:** none

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:** none

**Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:** none

**EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:** none

**Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:** none

### **15.2 Chemical safety assessment:**

No Chemical Safety Assessment has been carried out.

<b>SECTION 16: Other information</b>
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**Revision Information:** Not relevant.

**References**

PBT PBT: persistent, bioaccumulative and toxic substance.  
vPvB vPvB: very persistent and very bioaccumulative substance.

**Key literature references and sources for data:** No data available.

**Wording of the H-statements in section 2 and 3:** none

**Training information:** No data available.

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**Disclaimer:**

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