

Becton, Dickinson and
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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)
367671	TUBE NAHEP GH 13X75 2.0 PLBL CE GN	BD Vacutainer® Sodium Heparin (NH) 33 USP = 33 IU Blood Collection Tubes
367869	TUBE NAHEP PLH 13X75 4.0 PLBL GN	BD Vacutainer® NH (Sodium Heparin) 68 I.U. Plus Blood Collection Tubes
367876	TUBE NAHEP PLH 13X100 6.0 PLBL GN	BD Vacutainer® NH (Sodium Heparin) 102 I.U. Plus Blood Collection Tubes
368480	TUBE NAHEP GC 16X100 10.0 PLBLCE GN	BD Vacutainer® NH (Sodium Heparin) 170 I.U. Blood Collection Tubes
369622	TUBE NAHEP PLH 13X100 6.0 PLBL DK/BL CE	BD Vacutainer® NH 102 I.U. Plus Blood Collection Tubes
369623	TUBE NAHEP PLH 13X75 4.0 PLBL DK/BL CE	BD Vacutainer® NH 68 I.U. Plus Blood Collection Tubes
367196	TUBE NAHEP PLH 13X75 4.0 USI GN CE	BD Vacutainer® NH (Sodium Heparin) 68 I.U. Plus Blood Collection Tubes

Additional identification

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Chemical name: Heparin, sodium salt
Chemical formula: -
INDEX No. -
CAS-No. 9041-08-1
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
Plymouth, Devon PL6 7BP
United Kingdom

Telephone: 44 0 1752 701281

Fax: 44 1752 788308

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

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3.1 Substances

General information: No hazardous ingredients.

REACH Registration No.: No data available.

M-Factor: No data available.

Purity: 100.0000%

SECTION 4: First aid measures

General: Get medical attention if symptoms occur.

4.1 Description of first aid measures

Inhalation: Move into fresh air and keep at rest. Treat symptomatically. Get medical attention if symptoms occur.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Skin Contact: Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

Ingestion: Rinse mouth thoroughly. Never give liquid to an unconscious person. Get medical attention if symptoms occur.

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: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

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5.1 Extinguishing media
Suitable extinguishing media:

Water spray, fog, CO₂, 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
Special fire fighting procedures:

No unusual fire or explosion hazards noted.

Special protective equipment for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

See Section 8 of the SDS for Personal Protective Equipment.

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. Prevent runoff from entering drains, sewers, or streams.

6.4 Reference to other sections:

No data available.

SECTION 7: Handling and storage:

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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**

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.

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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

Odor Threshold: No data available.

pH: No data available.

Melting Point: The physical-chemical properties of this material have not been fully investigated.

Boiling Point: The physical-chemical properties of this material have not been fully investigated.

Flash Point: Not applicable

Evaporation Rate: No data available.

Flammability (solid, gas): No data available.

Flammability Limit - Upper (%): No data available.

Flammability Limit - Lower (%): No data available.

Vapor pressure: The physical-chemical properties of this material have not been fully investigated.

Vapor density (air=1): No data available.

Relative density: 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.

Solubility (other): Not applicable

Partition coefficient (n-octanol/water): No data available.

Autoignition Temperature: No data available.

Decomposition Temperature: No data available.

SADT: No data available.

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Viscosity: Not determined.
Explosive properties: No data available.
Oxidizing properties: No data available.

9.2 Other information

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

SECTION 10: Stability and reactivity

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

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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.

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:

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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

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.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

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Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Chronic Toxicity**Fish**

Product: No data available.

Aquatic Invertebrates

Product: No data available.

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.

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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) | |
| 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. |



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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.
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.

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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

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

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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.

SECTION 16: Other information

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.

Issue Date: 10.02.2021
SDS No.: UN0000000000000367671-1002-1-01



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