


## SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe

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

#### 1.1 Product identifier

Product name	<b>Load buffer type 1; part of 'illustra™ blood genomicPrep Midi Flow Kit, 100 purifications'</b>	
Catalogue Number	28-9042-62	 9 0 2 8 9 0 4 2 6 2
Component Number	406181	
Product description		
Product type	Liquid.	
Other means of identification	Not available.	

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

Analytical chemistry. Laboratory chemicals Research and Development

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

##### Supplier

GE Healthcare UK Ltd  
Amersham Place  
Little Chalfont  
Buckinghamshire HP7 9NA  
England  
+44 0870 606 1921

##### **Hours of operation**

08.30 - 17.00

**Person who prepared the MSDS:** msdslifesciences@ge.com

##### **1.4 Emergency telephone number**

##### **Europe**

GE Healthcare Bio-Sciences GmbH  
Munzinger Strasse 5  
D-79111 Freiburg  
Germany / Deutschland

+49 0761 4543 0

##### National advisory body/Poison Centre

##### **Europe**

<http://www.who.int/ipcs/poisons/centre/directory/euro/en/>

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### **Product definition**

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

**Supplemental label elements** Not applicable.

##### Special packaging requirements



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**Containers to be fitted with child-resistant fastenings** Not applicable.

**Tactile warning of danger** Not applicable.

## 2.3 Other hazards

**Other hazards which do not result in classification** Not available.

## SECTION 3: Composition/information on ingredients

Substance/mixture

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact** In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.

**Inhalation** If inhaled, remove to fresh air. Get medical attention if symptoms appear.

**Skin contact** Wash with soap and water. Get medical attention if symptoms appear.

**Ingestion** Do not ingest. Get medical attention if symptoms appear.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training.

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

#### Potential acute health effects

**Eye contact** No known significant effects or critical hazards.

**Inhalation** No known significant effects or critical hazards.

**Skin contact** No known significant effects or critical hazards.

**Ingestion** No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** No specific data.

**Inhalation** No specific data.

**Skin contact** No specific data.

**Ingestion** No specific data.

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

**Notes to physician** No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** None known.

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

**Hazards from the substance or mixture** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion products** Decomposition products may include the following materials:  
halogenated compounds  
metal oxide/oxides

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.



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<b>Special protective equipment for fire-fighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

For emergency responders

**6.2 Environmental precautions** Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

**Small spill** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

**6.4 Reference to other sections** See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenarios(s).

### 7.1 Precautions for safe handling

**Protective measures**

**Advice on general occupational hygiene**

**7.2 Conditions for safe storage, including any incompatibilities** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

**Recommendations** Analytical chemistry. Laboratory chemicals Research and Development

**Industrial sector specific solutions**

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenarios(s).

### 8.1 Control parameters

**Occupational exposure limits**

No exposure limit value known.

**Recommended monitoring procedures**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

**Derived effect levels**

No DELs available.

**Predicted effect concentrations**

No PECs available.

### 8.2 Exposure controls



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<b>Appropriate engineering controls</b>	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
<b>Individual protection measures</b>	
<b>Hygiene measures</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Eye/face protection</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
<b>Skin protection</b>	
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<b>Body protection</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Other skin protection</b>	
<b>Respiratory protection</b>	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	
<b>Physical state</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Odourless.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	
<b>Initial boiling point and boiling range</b>	
<b>Flash point</b>	
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Burning time</b>	Not applicable.
<b>Burning rate</b>	
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Vapour pressure</b>	
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	Not available.
<b>Auto-ignition temperature</b>	
<b>Decomposition temperature</b>	
<b>Viscosity</b>	
<b>Explosive properties</b>	Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.
<b>Oxidising properties</b>	Not available.

### 9.2 Other information

No additional information.



## SECTION 10: Stability and reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid

No specific data.

### 10.5 Incompatible materials

No specific data.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Conclusion/Summary

Not available.

#### Irritation/Corrosion

#### Conclusion/Summary

Not available.

#### Sensitiser

#### Conclusion/Summary

Not available.

#### Mutagenicity

#### Conclusion/Summary

Not available.

#### Carcinogenicity

#### Conclusion/Summary

Not available.

#### Reproductive toxicity

#### Conclusion/Summary

Not available.

#### Teratogenicity

#### Conclusion/Summary

Not available.

#### Information on the likely routes of exposure

#### Potential acute health effects

#### Inhalation

No known significant effects or critical hazards.

#### Ingestion

No known significant effects or critical hazards.

#### Skin contact

No known significant effects or critical hazards.

#### Eye contact

No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

#### Inhalation

No specific data.

#### Ingestion

No specific data.

#### Skin contact

No specific data.

#### Eye contact

No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

#### Potential immediate effects

#### Potential delayed effects

#### Long term exposure

#### Potential immediate effects

#### Potential delayed effects

#### Potential chronic health effects

Not available.

#### Conclusion/Summary

Not available.



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<b>General</b>	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	No known significant effects or critical hazards.
<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Teratogenicity</b>	No known significant effects or critical hazards.
<b>Developmental effects</b>	No known significant effects or critical hazards.
<b>Fertility effects</b>	No known significant effects or critical hazards.
<b>Other information</b>	

## SECTION 12: Ecological information

### 12.1 Toxicity

<b>Conclusion/Summary</b>	Not available.
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### 12.2 Persistence and degradability

<b>Conclusion/Summary</b>	Not available.
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### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

Soil/water partition coefficient ( $K_{oc}$ ) Not available.  
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<b>Mobility</b>	Not available.
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### 12.5 Results of PBT and vPvB assessment

PBT

vPvB

<b>12.6 Other adverse effects</b>	No known significant effects or critical hazards.
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## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

<b>Methods of disposal</b>	The generation of waste should be avoided or minimised wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
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<b>Hazardous waste</b>	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
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#### Packaging

Methods of disposal

Special precautions

## SECTION 14: Transport information

	ADR/RID	ADN/ADNR	IMDG	IATA
<b>14.1 UN number</b>	Not regulated.		Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	-		-	-
<b>14.3 Transport hazard class(es)</b>	-		-	-
<b>14.4 Packing group</b>	-		-	-



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14.5 Environmental hazards				
14.6 Special precautions for user				
Additional information	-		-	-

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

## SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** Not applicable.

Other EU regulations

Europe inventory

**Europe inventory:** All components are listed or exempted.

Aerosol dispensers

### 15.2 Chemical Safety Assessment

## SECTION 16: Other information

 Indicates information that has changed from previously issued version.

### Abbreviations and acronyms

ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

**Full text of abbreviated H statements**

Not applicable.

**Full text of classifications [CLP/GHS]**

Not applicable.

**Full text of abbreviated R phrases**

Not applicable.

**Full text of classifications [DSD/DPD]**

Not applicable.

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### Notice to reader



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To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability 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.

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