

SAFETY DATA SHEET

Creation Date 03-Apr-2009	Revision Date 28-Apr-2014	Revision Number 1	
SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE			
	COMPANY/UNDERTAKING		
1.1. Product identifier			
Product Description:	Human serum, Plasma, and Whole Blood		
1.2. Relevant identified uses of the substance or mixture and uses advised against			
Recommended Use	For research use only		
Uses advised against	No Information available		
1.3. Details of the supplier of the safety data sheet			
Company	GE Healthcare Dharmacon Inc		
	2650 Crescent Drive Suite 100		
	Lafayette, CO 80026 Tel: 303-604-9499		
	Fax: 303-604-9680		
E-mail address	stephanie.stroh@ge.com		
1.4. Emergency telephone number			
	Chemtrec US: (800) 424-9300		
	Chemtrec EU: 001 (202) 483-7616		
SECTION 2: HAZARDS IDENTIFICATION			

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards Based on available data, the classification criteria are not met

Health hazards Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

Classification according to EU Directives 67/548/EEC or 1999/45/EC R-phrase(s) None

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

2.2. Label elements

Hazard Statements

Precautionary Statements

2.3. Other hazards

No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measuresEye ContactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain
medical attention.Skin ContactWash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.IngestionDo not induce vomiting. Obtain medical attention.InhalationNot an expected route of exposure.Protection of First-aidersEnsure that medical personnel are aware of the material(s) involved, take precautions to
protect themselves and prevent spread of contamination4.2. Most important symptoms and effects, both acute and delayed

No information available

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

Notes to Physician

Treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire..

Extinguishing media which must not be used for safety reasons No information available.

5.2. Special hazards arising from the substance or mixture

None known.

Hazardous Combustion Products None known.

None known.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Do not get in eyes, on skin, or on clothing.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Dispose of cleanup material in marked biohazard container. Clean with disinfectants.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

This product is prepared from human blood. All blood products should be treated as potentially infectious, and handled as if capable of transmitting infectious agents. Do not get in eyes, on skin, or on clothing. Do not taste or swallow.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Derived No Effect Level (DNEL) No information available.

Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral				
Dermal				
Inhalation				

Predicted No Effect Concentration No information available. **(PNEC)**

8.2. Exposure controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Personal protective equipment

Eye Protection

Safety glasses with side-shields (European standard - EN 166)

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Hand Protectio	on	Protective gloves		
Glove material Disposable gloves	Breakthrough See manufact recommendat	urers -	EU standard EN 374	Glove comments (minimum requirement)
Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure		prevent skin exposure		
to manufacturer/supplie Ensure gloves are suite	structions regardir er for information) able for the task: consideration the) Chemical compatability, D specific local conditions ur	exterity, Operational condi	vided by the supplier of the gloves. (Refer itions, User susceptibility, e.g. sensitisation used, such as the danger of cuts, abrasion.
Respiratory Pro	otection	No special protective equipment required. To protect the wearer, respiratory protective equipment must be the correct fit and be used a maintained properly.		nent must be the correct fit and be used and
Large scale/em	nergency use	e In case of insufficient ventilation wear suitable respiratory equipment		iratory equipment
Small scale/La	boratory use	Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.		
		When RPE is used a face piece Fit Test should be conducted.		conducted.
Hygiene Measures		Handle in accordance with good industrial hygiene and safety practice		and safety practice
Environmental expos	mental exposure controls No information available.			
	SECTIC	N 9: PHYSICAL AI	ND CHEMICAL PR	OPERTIES
9.1. Information on ba	asic physical an	d chemical properties		
Appearance Physical State Odor Odor Threshold pH		Yellow-orange Liquid. No information available No data available No data available		
Melting Point/Range Softening Point Boiling Point/Range Flash Point		No data available No data available Not applicable Not applicable	Method -	No information available
Evaporation Rate Flammability (solid,g Explosion Limits	as)	No data available No information available No data available.		
Vapor Pressure Vapor Density Specific Gravity / De Bulk Density	nsity	No data available No data available No data available No data available	(Air = 1.0)	

No information available

No information available

Water Solubility

octanol/water)

Solubility in other solvents

Partition Coefficient (n-

No data available No data available No data available No information available No information available

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity	None known, based on information available	
10.2. Chemical stability	Stable under normal conditions.	
10.3. Possibility of hazardous reactions		
Hazardous Polymerization Hazardous Reactions	Hazardous polymerization does not occur. None under normal processing.	
10.4. Conditions to avoid	None known.	
10.5. Incompatible materials	None known.	

10.6. Hazardous decomposition products

None known.

SECTION 11: TOXICOLOGICAL INFORMATION			
11.1. Information on toxicological effects			
Product Information	No acute toxicity information is available for this product		
(a) acute toxicity; Oral Dermal	No data available No data available		
Inhalation	No data available		
(b) skin corrosion/irritation;	No data available		
(c) serious eye damage/irritation;	No data available		
(d) respiratory or skin sensitization; Respiratory Skin	No data available No data available		
(e) germ cell mutagenicity;	No data available		
(f) carcinogenicity;	No data available		
	There are no known carcinogenic chemicals in this product		
(g) reproductive toxicity;	No data available		

(h) STOT-single exposure;	No data available
(i) STOT-repeated exposure;	No data available
Target Organs	No information available
(j) aspiration hazard;	No data available
Symptoms / effects, both acute and delayed	No information available

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity effects	Do not empty into drains.
12.2. Persistence and degradability	No information available
12.3. Bioaccumulative potential	No information available
12.4. Mobility in soil	No information available
12.5. Results of PBT and vPvB assessment	No data available for assessment
12.6. Other adverse effects Endocrine Disruptor Information Persistent Organic Pollutant	This product does not contain any known or suspected endocrine disruptors This product does not contain any known or suspected substance

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods Chemical waste generators must determine whether a discarded chemical is classified as a Waste from Residues / Unused Products hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. **Contaminated Packaging** Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers. **European Waste Catalogue (EWC)** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific **Other Information** Waste codes should be assigned by the user based on the application for which the product was used

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

Not regulated

14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group

Ozone Depletion Potential

ADR

Not regulated

14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group

Human serum, Plasma, and Whole Blood

IATA

Not regulated

14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group	
14.5. Environmental hazards	No hazards identified
14.6. Special precautions for user	No special precautions required
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

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

International Inventories X = listed

National Regulations

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment Take note of Dir 94/33/EC on the protection of young people at work Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

Not applicable

Legend

 CAS - Chemical Abstracts Service EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances 	 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List ENCS - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances NZIOC - New Zealand Inventory of Chemicals
WEL - Workplace Exposure Limit ACGIH - American Conference of Governmental Industrial Hygienists DNEL - Derived No Effect Level RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic	 TWA - Time Weighted Average IARC - International Agency for Research on Cancer PNEC - Predicted No Effect Concentration LD50 - Lethal Dose 50% EC50 - Effective Concentration 50% POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative
 ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code OECD - Organisation for Economic Co-operation and Development BCF - Bioconcentration factor 	ICAO/IATA - International Civil Aviation Organization/International Air Transport Association MARPOL - International Convention for the Prevention of Pollution from Ships ATE - Acute Toxicity Estimate VOC - Volatile Organic Compounds

Key literature references and sources for data Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet