# SAFETY DATA SHEET

## Shigella Agglutination Sera

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	Shigella Agglutination Sera	
Product number	PL.6900,PL.6901,PL.6902,PL.6903	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Identified uses	Laboratory reagent.	
Uses advised against	No specific uses advised against are identified.	
1.3. Details of the supplier of the safety data sheet		
Supplier	Pro-Lab Diagnostics 3 Bassendale Road Wirral Merseyside CH62 3QL Tel: 0151 353 1613 Fax: 0151 353 1614 mowen@pro-lab.com	
1.4. Emergency telephone number		
Emergency telephone	+44 (0)151 353 1613 Monday to Friday 9.00 to 17.00 +44 (0)7714 429 646 outside the above hours	
SECTION 2: Hazards identific	ation	
2.1. Classification of the subst	ance or mixture	
Classification		
Physical hazards	Not Classified	
Health hazards	Not Classified	
Environmental hazards	Not Classified	
Classification (67/548/EEC or 1999/45/EC)		
2.2. Label elements		
Hazard statements	NC Not Classified	
2.3. Other hazards		
This product does not contain any substances classified as PBT or vPvB.		
SECTION 3: Composition/information on ingredients		
3.2. Mixtures		
Composition comments	Absorbed sera from immunised rabbits, a mixture of absorbed sera from immunised rabbits and monoclonal antibodies. Preservative: sodium azide (NaN3) 0.9 mg/ml	
SECTION 4: First aid measure	as a second s	

## 4.1. Description of first aid measures

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.	
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.	
Skin contact	Wash skin thoroughly with soap and water.	
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse.	
4.2. Most important symptoms and effects, both acute and delayed		
Inhalation	Irritation of nose, throat and airway.	
Ingestion	May cause discomfort if swallowed.	
Skin contact	Prolonged skin contact may cause redness and irritation.	
Eye contact	May cause temporary eye irritation.	
4.3. Indication of any immedia	te medical attention and special treatment needed	
Notes for the doctor	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
SECTION 5: Firefighting measurements	sures	
5.1. Extinguishing media		
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
5.2. Special hazards arising fr	om the substance or mixture	
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours.	
5.3. Advice for firefighters		
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.	
SECTION 6: Accidental release	se measures	
6.1. Personal precautions, pro	stective equipment and emergency procedures	
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.	
6.2. Environmental precaution	<u>s</u>	
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground.	
6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.	
6.4. Reference to other sectio	ns	
Reference to other sections	See Section 11 for additional information on health hazards. For waste disposal, see Section 13.	
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		

Usage precautions	Read and follow manufacturer's recommendations.	
Advice on general occupational hygiene	Avoid contact with eyes and prolonged skin contact.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage precautions	Store in a cool and well-ventilated place.	
7.3. Specific end use(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.	
SECTION 8: Exposure Controls/personal protection		
8.1. Control parameters		
Ingredient comments	No exposure limits known for ingredient(s).	
8.2. Exposure controls		
Eye/face protection	No specific eye protection required during normal use.	
Hand protection	The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.	
Hygiene measures	No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.	

## **SECTION 9: Physical and Chemical Properties**

## 9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Odour threshold	Not determined.
рН	Not determined.
Melting point	Not relevant.
Initial boiling point and range	Not determined.
Flash point	Not determined.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not relevant.
Upper/lower flammability or explosive limits	Not relevant.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	Not determined.
Bulk density	Not determined.
Solubility(ies)	Soluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not relevant.

Decomposition Temperature	Not relevant.	
Viscosity	Not determined.	
Explosive properties	Not considered to be explosive.	
Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria	
	for classification as oxidising.	
9.2. Other information		
Other information	No information required.	
SECTION 10: Stability and rea	activity	
10.1. Reactivity		
Reactivity	There are no known reactivity hazards associated with this product.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures and when used as recommended.	
10.3. Possibility of hazardous	reactions	
Possibility of hazardous reactions	Will not polymerise.	
10.4. Conditions to avoid		
Conditions to avoid	Avoid excessive heat for prolonged periods of time.	
10.5. Incompatible materials		
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.	
10.6. Hazardous decomposition products		
10.6. Hazardous decomposition	on products	
10.6. Hazardous decomposition Hazardous decomposition products	on products None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.	
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Hazardous decomposition products SECTION 11: Toxicological int 11.1. Information on toxicologi Acute toxicity - oral	None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen. formation cal effects	
Hazardous decomposition products SECTION 11: Toxicological int 11.1. Information on toxicologi Acute toxicity - oral Notes (oral LD <sub>50</sub> )	None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.	
Hazardous decomposition products SECTION 11: Toxicological int 11.1. Information on toxicologi Acute toxicity - oral Notes (oral LD <sub>50</sub> ) Acute toxicity - dermal	None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen. formation cal effects Based on available data the classification criteria are not met.	
Hazardous decomposition products SECTION 11: Toxicological int 11.1. Information on toxicologi Acute toxicity - oral Notes (oral LD <sub>50</sub> ) Acute toxicity - dermal Notes (dermal LD <sub>50</sub> )	None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen. formation cal effects	
Hazardous decomposition products SECTION 11: Toxicological int 11.1. Information on toxicologi Acute toxicity - oral Notes (oral LD <sub>50</sub> ) Acute toxicity - dermal	None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen. formation cal effects Based on available data the classification criteria are not met.	
Hazardous decomposition products SECTION 11: Toxicological int 11.1. Information on toxicologi Acute toxicity - oral Notes (oral LD <sub>50</sub> ) Acute toxicity - dermal Notes (dermal LD <sub>50</sub> ) Acute toxicity - inhalation	None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen. formation cal effects Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.	
Hazardous decomposition products SECTION 11: Toxicological int 11.1. Information on toxicologi Acute toxicity - oral Notes (oral LD <sub>50</sub> ) Acute toxicity - dermal Notes (dermal LD <sub>50</sub> ) Acute toxicity - inhalation Notes (inhalation LC <sub>50</sub> ) Skin corrosion/irritation Animal data	None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen. formation cal effects Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.	
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## Shigella Agglutination Sera

General mutagenicity         Genotoxidy - in vivo         Based on available data the classification criteria are not met.           Genotoxidy - in vivo         Based on available data the classification criteria are not met.           Carcinogenicity         Based on available data the classification criteria are not met.           Reproductive toxidy         Based on available data the classification criteria are not met.           Reproductive toxidy - ferdilly         Based on available data the classification criteria are not met.           Specific target organ toxidiy - repeated exposure         Based on available data the classification criteria are not met.           Specific target organ toxidiy - repeated exposure         Based on available data the classification criteria are not met.           Apprintion hazard         Based on available data the classification criteria are not met.           Apprintion hazard         Not anticipated to present an aspiration hazard, based on chemical structure.           SECTION 12: Ecological information         Not available.           12.1. Toxidiy         Not considered toxic to fish.           12.2. Persistence and degradabiliy         Not available on bioaccumulation.           Partition coefficient         Not data available on bioaccumulation.           Partition coefficient         Not determined.           12.4. Mobility in soil         Not determined.           SECTION 13: Disposal compatitone subset produc			
Genotoxidy - in vivo     Based on available data the classification criteria are not met.       Carcinogenicity     Based on available data the classification criteria are not met.       Reproductive toxicity     Based on available data the classification criteria are not met.       Specific target organ toxicity - single exposure     Based on available data the classification criteria are not met.       Specific target organ toxicity - single exposure     Based on available data the classification criteria are not met.       Specific target organ toxicity - repeated exposure     Based on available data the classification criteria are not met.       Aspiration hazard     Based on available data the classification criteria are not met.       Aspiration hazard     Not anticipated to present an aspiration hazard, based on chemical structure.       SECTION 12: Ecological Information     Not anticipated to present an aspiration hazard, based on chemical structure.       12.1. Toxicity     Not considered toxic to fish.       12.1. Specification coefficient     No data available on bioaccumulation.       12.3. Bioaccumulative potential     No data available on bioaccumulation.       Partition coefficient     Not determined.       12.4. Mobility in aol     The product is soluble in water.       12.5. Results of PBT and vPVB     Sessessment       12.6. Coursidered focto     Not determined.       12.6. Results of PBT and vPVB     Spece of waste productor used containers in accordance with local regulations <th></th> <th></th>			
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Carcinogenicity       Based on available data the classification criteria are not met.         Reproductive toxicity       Reproductive toxicity - fertility       Based on available data the classification criteria are not met.         Specific target organ toxicity - repeated exposure       Based on available data the classification criteria are not met.         Specific target organ toxicity - repeated exposure       Based on available data the classification criteria are not met.         Appiration hazard       Assiration hazard       Not anticipated to present an aspiration hazard, based on chemical structure.         SECTION 12: Ecological Information       Information hazard, based on available data the classification criteria are not met.         Aspiration hazard       Not anticipated to present an aspiration hazard, based on chemical structure.         SECTION 12: Ecological Information       Information hazard, based on chemical structure.         Section 12: Ecological Information       Not considered toxic to fish.         12: Divacity       Not data available.         12: Bioaccumulative potential       No data available on bioaccumulation.         Partition coefficient       Not datermined.         12: Bioaccumulative potential       Not datermined.         12: Abolity in soil       The product is soluble in water.         12: Gooder adverse effects       Not determined.         12: Other adverse effects       Not determined.	Genotoxicity - in vivo	Based on available data the classification criteria are not met.	
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12.1. Toxicity       Not considered toxic to fish.         12.2. Persistence and degradability       Not dat available.         12.3. Bioaccumulative potential       No data available.         12.3. Bioaccumulative potential       No data available on bioaccumulation.         Partition coefficient       Not determined.         12.4. Mobility in soil       Mot determined.         Mobility in soil       The product is soluble in water.         12.5. Results of PBT and vPvB assessment       Results of PBT and vPvB assessment         12.6. Other adverse effects       Not determined.         Other adverse effects       Not determined.         13.1. Waste treatment methods       General information         General       Dispose of waste product or used containers in accordance with local regulations         SECTION 14: Transpot information       Dispose of waste product or used containers in accordance with local regulations         General       The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).         14.1. UN number       Not applicable.	Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.	
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12.2. Persistence and degradability       No data available.         12.3. Bioaccumulative potential       No data available on bioaccumulation.         12.3. Bioaccumulative potential       No data available on bioaccumulation.         Partition coefficient       No data available on bioaccumulation.         Partition coefficient       Not determined.         12.4. Mobility in soil       Motours soluble in water.         12.5. Results of PBT and vPvB assessment       The product is soluble in water.         12.6. Other adverse effects       Not determined.         Other adverse effects       Not determined.         SECTION 13: Disposal considerations       Isose of waste product or used containers in accordance with local regulations         SECTION 14: Transport information       Dispose of waste product or used containers in accordance with local regulations         SECTION 14: Transport information       Iso product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).         14.1. UN number       Vin applicable.	12.1. Toxicity		
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Bioaccumulative potential       No data available on bioaccumulation.         Partition coefficient       Not determined.         12.4. Mobility in soil       Image: Mobility in soil         Mobility       The product is soluble in water.         12.5. Results of PBT and vPvB assessment       Results of PBT and vPvB         Results of PBT and vPvB       This product does not contain any substances classified as PBT or vPvB.         assessment       12.6. Other adverse effects         Other adverse effects       Not determined.         SECTION 13: Disposal considerations       13.1. Waste treatment methods         General information       Dispose of waste product or used containers in accordance with local regulations         SECTION 14: Transport information       The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).         14.1. UN number       Not applicable.	Persistence and degradability	No data available.	
Partition coefficient       Not determined.         12.4. Mobility in soil       Image: Second	12.3. Bioaccumulative potentia	al	
12.4. Mobility in soil       Mobility       The product is soluble in water.         12.5. Results of PBT and vPvB assessment       This product does not contain any substances classified as PBT or vPvB.         Results of PBT and vPvB assessment       This product does not contain any substances classified as PBT or vPvB.         12.6. Other adverse effects       Not determined.         SECTION 13: Disposal considerations       Not determined.         13.1. Waste treatment methods       Second and the product or used containers in accordance with local regulations         SECTION 14: Transport information       Dispose of waste product or used containers in accordance with local regulations         General       The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).         14.1. UN number       Second and the product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).	Bioaccumulative potential	No data available on bioaccumulation.	
Mobility       The product is soluble in water.         12.5. Results of PBT and vPvB assessment       This product does not contain any substances classified as PBT or vPvB. assessment         12.6. Other adverse effects       This product does not contain any substances classified as PBT or vPvB.         0ther adverse effects       Not determined.         SECTION 13: Disposal considerations       Information         13.1. Waste treatment methods       Dispose of waste product or used containers in accordance with local regulations         SECTION 14: Transport information       Dispose of waste product or used containers in accordance with local regulations         Secrion 14: Transport information       The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).         14.1. UN number       Not applicable.	Partition coefficient	Not determined.	
12.5. Results of PBT and vPvB assessment         Results of PBT and vPvB assessment       This product does not contain any substances classified as PBT or vPvB.         12.6. Other adverse effects       Not determined.         20.00000000000000000000000000000000000	12.4. Mobility in soil		
Results of PBT and vPvB assessment       This product does not contain any substances classified as PBT or vPvB.         12.6. Other adverse effects       Not determined.         Other adverse effects       Not determined.         SECTION 13: Disposal considerations       Image: Consideration in the state of the s	Mobility	The product is soluble in water.	
assessment          12.6. Other adverse effects       Not determined.         Other adverse effects       Not determined.         SECTION 13: Disposal considerations       Image: Construction of the section of the sectio	12.5. Results of PBT and vPvE	3 assessment	
12.6. Other adverse effects       Not determined.         Other adverse effects       Not determined.         SECTION 13: Disposal considerations       Image: Constraint of the section of the sect		This product does not contain any substances classified as PBT or vPvB.	
Other adverse effects       Not determined.         SECTION 13: Disposal considerations         13.1. Waste treatment methods         General information       Dispose of waste product or used containers in accordance with local regulations         SECTION 14: Transport information       Dispose of waste product or used containers in accordance with local regulations         General       The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).         14.1. UN number       Not applicable.			
SECTION 13: Disposal considerations         13.1. Waste treatment methods         General information       Dispose of waste product or used containers in accordance with local regulations         SECTION 14: Transport information         General       The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).         14.1. UN number         Not applicable.			
13.1. Waste treatment methods         General information       Dispose of waste product or used containers in accordance with local regulations         SECTION 14: Transport information         General       The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).         14.1. UN number         Not applicable.	Other adverse effects	Not determined.	
General information       Dispose of waste product or used containers in accordance with local regulations         SECTION 14: Transport information         General       The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).         14.1. UN number       Not applicable.	SECTION 13: Disposal considerations		
SECTION 14: Transport information         General       The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).         14.1. UN number         Not applicable.	13.1. Waste treatment method	s	
General       The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).         14.1. UN number       Not applicable.	General information	Dispose of waste product or used containers in accordance with local regulations	
(IMDG, IATA, ADR/RID). <u>14.1. UN number</u> Not applicable.	SECTION 14: Transport inform	nation	
Not applicable.	General		
	14.1. UN number		
14.2 LIN proper chipping name	Not applicable.		
14.2. ON proper shipping hame	14.2. UN proper shipping nam	e	

Not applicable.

## 14.3. Transport hazard class(es)

No transport warning sign required.

## 14.4. Packing group

Not applicable.

## 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

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

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
National regulations	EH40/2005 Workplace exposure limits.
	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009
	No. 716).
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16
	December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18
	December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of
	Chemicals (REACH) (as amended).

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

Classification procedures according to Regulation (EC) 1272/2008	Not classified.: Calculation method.
Revision date	04/02/2016
Revision	6
Supersedes date	01/11/2012
SDS number	2872

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