

SAFETY DATA SHEET

SIEMENS

IMMULITE® 2000 Anti-HBs

MSDS no.: L2KAH2_6

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

1.1 Product identifier

Product name : IMMULITE® 2000 Anti-HBs
Product code : L2KAH2/6, L2KAH2(D), L2KAH6(D), 10372454, 10372455, 10381318, 10381317
Product description : Not available.

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

Not applicable.

1.3 Company/undertaking identification

Manufactured/supplied : Siemens Healthcare Diagnostics Limited
Sir William Siemens Square
Newton House
Camberley
Frimley
Surrey
GU16 8QD
UK

Phone: +44 (0) 1276 696000
Fax: +44 (0)1276 696133

e-mail address of person responsible for this SDS : dx.msds.healthcare@siemens.com

1.4 Emergency telephone number

: Poison Control:
In England and Wales:
NHS Direct – 0845 4647 or 111
In Scotland: NHS 24 – 08454 24 24 24
In the Republic of Ireland: 01 809 2166

CHEMTREC: 0870-8200418 (UK only)
00 + 1 + 703-527-3887 (UK & Ireland)
(International calls to the United Kingdom)

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	: Anti-Hba Reagent Wedge A	Mixture
	Anti-Hba Reagent Wedge B	Mixture
	Anti-HBs Controls	Mixture
	Anti-HBs Adjustors	Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

Anti-Hba Reagent Wedge A	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Anti-Hba Reagent Wedge B	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Anti-HBs Controls	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Anti-HBs Adjustors	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity	: Anti-Hba Reagent Wedge A
	Anti-Hba Reagent Wedge B
	Anti-HBs Controls
	Anti-HBs Adjustors

Ingredients of unknown ecotoxicity	: Anti-Hba Reagent Wedge A
	Anti-Hba Reagent Wedge B
	Anti-HBs Controls
	Anti-HBs Adjustors

Classification according to Directive 1999/45/EC [DPD]

Anti-Hba Reagent Wedge A	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
Anti-Hba Reagent Wedge B	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
Anti-HBs Controls	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
Anti-HBs Adjustors	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	: Anti-Hba Reagent Wedge A	Not classified.
	Anti-Hba Reagent Wedge B	Not classified.
	Anti-HBs Controls	Not classified.
	Anti-HBs Adjustors	Not classified.

Physical/chemical hazards	: Anti-Hba Reagent Wedge A	Not applicable.
	Anti-Hba Reagent Wedge B	Not applicable.
	Anti-HBs Controls	Not applicable.
	Anti-HBs Adjustors	Not applicable.

SECTION 2: Hazards identification

Human health hazards	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not applicable. Not applicable. Not applicable. Not applicable.
Environmental hazards	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not applicable. Not applicable. Not applicable. Not applicable.

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

Signal word	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No signal word. No signal word. No signal word. No signal word.
Hazard statements	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Precautionary statements

Prevention	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not applicable. Not applicable. Not applicable. Not applicable.
Response	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not applicable. Not applicable. Not applicable. Not applicable.
Storage	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not applicable. Not applicable. Not applicable. Not applicable.
Supplemental label elements	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not applicable. Not applicable. Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not applicable. Not applicable. Not applicable. Not applicable.

2.3 Other hazards

SECTION 2: Hazards identification

Other hazards which do not result in classification :

Anti-Hba Reagent Wedge A	None known.
Anti-Hba Reagent Wedge B	None known.
Anti-HBs Controls	None known.
Anti-HBs Adjustors	None known.

Additional information : Potentially biohazardous material.

Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.

SECTION 3: Composition/information on ingredients

Substance/mixture :

Anti-Hba Reagent Wedge A	Mixture
Anti-Hba Reagent Wedge B	Mixture
Anti-HBs Controls	Mixture
Anti-HBs Adjustors	Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact :

Anti-Hba Reagent Wedge A	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Anti-Hba Reagent Wedge B	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Anti-HBs Controls	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Anti-HBs Adjustors	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation :

Anti-Hba Reagent Wedge A	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Anti-Hba Reagent Wedge B	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Anti-HBs Controls	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Anti-HBs Adjustors	Remove victim to fresh air and keep at

SECTION 4: First aid measures

Skin contact

: Anti-Hba Reagent Wedge A

rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Anti-Hba Reagent Wedge B

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Anti-HBs Controls

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Anti-HBs Adjustors

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion

: Anti-Hba Reagent Wedge A

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Anti-Hba Reagent Wedge B

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Anti-HBs Controls

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Anti-HBs Adjustors

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

SECTION 4: First aid measures

Protection of first-aiders	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.
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4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No known significant effects or critical hazards. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No specific data. No specific data. No specific data. No specific data.
Inhalation	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No specific data. No specific data. No specific data. No specific data.
Skin contact	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No specific data. No specific data. No specific data. No specific data.

SECTION 4: First aid measures

Ingestion	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No specific data. No specific data. No specific data. No specific data.
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4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No specific treatment. No specific treatment. No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
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 thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special protective actions 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.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 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. Alternatively, or if water-insoluble, 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. 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. Dispose of via a licensed waste disposal contractor.

- 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 Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker or exposure or environmental releases.

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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : 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.

Eye/face protection : 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : 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.

Body protection : 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.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : 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.

SECTION 8: Exposure controls/personal protection

Environmental exposure controls : 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

Appearance

Physical state	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Liquid. Liquid. Liquid. Liquid.
Colour	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Colourless. Colourless. Colourless. Colourless.
Odour	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Odourless. Odourless. Odourless. Odourless.
pH	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	7.35 to 7.45 7.95 to 8.05 7 7
Melting point/freezing point	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Initial boiling point and boiling range	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Flash point	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. [Product does not sustain combustion.]
Evaporation rate	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Flammability (solid, gas)	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Burning time	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not applicable. Not applicable. Not applicable. Not applicable.
Burning rate	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not applicable. Not applicable. Not applicable. Not applicable.
Upper/lower flammability or explosive limits	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.

SECTION 9: Physical and chemical properties

Vapour pressure	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Solubility in water	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Partition coefficient: n-octanol/ water	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Auto-ignition temperature	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Decomposition temperature	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Viscosity	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Explosive properties	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Oxidising properties	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.

9.2 Other information

SADT	: Not available.
<u>Aerosol product</u>	
Type of aerosol	: Not applicable.
Heat of combustion	: Not available.
Ignition distance	: Not applicable.
Enclosed space ignition - Time equivalent	: Not applicable.
Enclosed space ignition - Deflagration density	: Not applicable.
Flame height	: Not applicable.
Flame duration	: Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Anti-Hba Reagent Wedge A	No specific test data related to reactivity available for this product or its ingredients.
	Anti-Hba Reagent Wedge B	No specific test data related to reactivity available for this product or its ingredients.
	Anti-HBs Controls	No specific test data related to reactivity

SECTION 10: Stability and reactivity

	Anti-HBs Adjustors	available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	The product is stable. The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No specific data. No specific data. No specific data. No specific data.
10.5 Incompatible materials	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No specific data. No specific data. No specific data. No specific data.
10.6 Hazardous decomposition products	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
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Acute toxicity estimates

Not available.

Irritation/Corrosion

Conclusion/Summary

SECTION 11: Toxicological information

Skin	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Eyes	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Respiratory	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.

Sensitisation

Conclusion/Summary

Skin	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Respiratory	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.

Mutagenicity

Conclusion/Summary

: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
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Carcinogenicity

Conclusion/Summary

: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
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Reproductive toxicity

Conclusion/Summary

: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
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Teratogenicity

Conclusion/Summary

: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
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Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

SECTION 11: Toxicological information

Eye contact	: Anti-Hba Reagent Wedge A	No known significant effects or critical hazards.
	Anti-Hba Reagent Wedge B	No known significant effects or critical hazards.
	Anti-HBs Controls	No known significant effects or critical hazards.
	Anti-HBs Adjustors	No known significant effects or critical hazards.
Inhalation	: Anti-Hba Reagent Wedge A	No known significant effects or critical hazards.
	Anti-Hba Reagent Wedge B	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
	Anti-HBs Controls	No known significant effects or critical hazards.
	Anti-HBs Adjustors	No known significant effects or critical hazards.
Skin contact	: Anti-Hba Reagent Wedge A	No known significant effects or critical hazards.
	Anti-Hba Reagent Wedge B	No known significant effects or critical hazards.
	Anti-HBs Controls	No known significant effects or critical hazards.
	Anti-HBs Adjustors	No known significant effects or critical hazards.
Ingestion	: Anti-Hba Reagent Wedge A	No known significant effects or critical hazards.
	Anti-Hba Reagent Wedge B	No known significant effects or critical hazards.
	Anti-HBs Controls	No known significant effects or critical hazards.
	Anti-HBs Adjustors	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Anti-Hba Reagent Wedge A	No specific data.
	Anti-Hba Reagent Wedge B	No specific data.
	Anti-HBs Controls	No specific data.
	Anti-HBs Adjustors	No specific data.
Inhalation	: Anti-Hba Reagent Wedge A	No specific data.
	Anti-Hba Reagent Wedge B	No specific data.
	Anti-HBs Controls	No specific data.
	Anti-HBs Adjustors	No specific data.
Skin contact	: Anti-Hba Reagent Wedge A	No specific data.
	Anti-Hba Reagent Wedge B	No specific data.
	Anti-HBs Controls	No specific data.
	Anti-HBs Adjustors	No specific data.
Ingestion	: Anti-Hba Reagent Wedge A	No specific data.
	Anti-Hba Reagent Wedge B	No specific data.
	Anti-HBs Controls	No specific data.
	Anti-HBs Adjustors	No specific data.

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

Short term exposure

SECTION 11: Toxicological information

Potential immediate effects	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Potential delayed effects	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
<u>Long term exposure</u>		
Potential immediate effects	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Potential delayed effects	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
<u>Potential chronic health effects</u>		
Not available.		
Conclusion/Summary	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
General	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

SECTION 11: Toxicological information

Developmental effects	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Interactive effects	:	
Other information	: Not available.	

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
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12.2 Persistence and degradability

Conclusion/Summary	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
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12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc})	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.
Mobility	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not available. Not available. Not available. Not available.

12.5 Results of PBT and vPvB assessment

PBT	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not applicable. Not applicable. Not applicable. Not applicable.
vPvB	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not applicable. Not applicable. Not applicable. Not applicable.

SECTION 12: Ecological information

12.6 Other adverse effects	: Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. 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

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Anti-Hba Reagent Wedge A : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
Anti-Hba Reagent Wedge B : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
Anti-HBs Controls : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
Anti-HBs Adjustors : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID

14.1 UN number	Anti-Hba Reagent Wedge A Anti-Hba Reagent Wedge B Anti-HBs Controls Anti-HBs Adjustors	Not regulated. Not regulated. Not regulated. Not regulated.
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SECTION 14: Transport information

14.2 UN proper shipping name	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-
14.3 Transport hazard class(es)	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-
14.4 Packing group	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-
14.5 Environmental hazards	Anti-Hba Reagent Wedge A	No.
	Anti-Hba Reagent Wedge B	No.
	Anti-HBs Controls	No.
	Anti-HBs Adjustors	No.
Additional information	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-

ADN

14.1 UN number	Anti-Hba Reagent Wedge A	Not regulated.
	Anti-Hba Reagent Wedge B	Not regulated.
	Anti-HBs Controls	Not regulated.
	Anti-HBs Adjustors	Not regulated.
14.2 UN proper shipping name	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-
14.3 Transport hazard class(es)	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-
14.4 Packing group	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-
14.5 Environmental hazards	Anti-Hba Reagent Wedge A	No.
	Anti-Hba Reagent Wedge B	No.
	Anti-HBs Controls	No.
	Anti-HBs Adjustors	No.
Additional information	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-

IMDG

14.1 UN number

SECTION 14: Transport information

	Anti-Hba Reagent Wedge A	Not regulated.
	Anti-Hba Reagent Wedge B	Not regulated.
	Anti-HBs Controls	Not regulated.
	Anti-HBs Adjustors	Not regulated.
14.2 UN proper shipping name	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-
14.3 Transport hazard class(es)	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-
14.4 Packing group	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-
14.5 Environmental hazards	Anti-Hba Reagent Wedge A	No.
	Anti-Hba Reagent Wedge B	No.
	Anti-HBs Controls	No.
	Anti-HBs Adjustors	No.
Additional information	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-
IATA		
14.1 UN number	Anti-Hba Reagent Wedge A	Not regulated.
	Anti-Hba Reagent Wedge B	Not regulated.
	Anti-HBs Controls	Not regulated.
	Anti-HBs Adjustors	Not regulated.
14.2 UN proper shipping name	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-
14.3 Transport hazard class(es)	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-
14.4 Packing group	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-
14.5 Environmental hazards	Anti-Hba Reagent Wedge A	No.
	Anti-Hba Reagent Wedge B	No.
	Anti-HBs Controls	No.
	Anti-HBs Adjustors	No.
Additional information	Anti-Hba Reagent Wedge A	-
	Anti-Hba Reagent Wedge B	-
	Anti-HBs Controls	-
	Anti-HBs Adjustors	-

SECTION 14: Transport information

14.6 Special precautions for user : Anti-Hba Reagent Wedge A

Anti-Hba Reagent Wedge B

Anti-HBs Controls

Anti-HBs Adjustors

Transport within user's premises:
always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport within user's premises:
always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport within user's premises:
always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport within user's premises:
always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Annex XIV

None of the components are listed.

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 : Anti-Hba Reagent Wedge A
Anti-Hba Reagent Wedge B
Anti-HBs Controls
Anti-HBs Adjustors

Not applicable.
Not applicable.
Not applicable.
Not applicable.

Other EU regulations

Europe inventory : Not determined.

Seveso II Directive

SECTION 15: Regulatory information

Anti-Hba Reagent Wedge A	This product is not controlled under the Seveso II Directive.
Anti-Hba Reagent Wedge B	This product is not controlled under the Seveso II Directive.
Anti-HBs Controls	This product is not controlled under the Seveso II Directive.
Anti-HBs Adjustors	This product is not controlled under the Seveso II Directive.

International regulations

Chemical Weapons Convention List Schedule I Chemicals	:	Anti-Hba Reagent Wedge A	Not listed
		Anti-Hba Reagent Wedge B	Not listed
		Anti-HBs Controls	Not listed
		Anti-HBs Adjustors	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Anti-Hba Reagent Wedge A	Not listed
		Anti-Hba Reagent Wedge B	Not listed
		Anti-HBs Controls	Not listed
		Anti-HBs Adjustors	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Anti-Hba Reagent Wedge A	Not listed
		Anti-Hba Reagent Wedge B	Not listed
		Anti-HBs Controls	Not listed
		Anti-HBs Adjustors	Not listed

15.2 Chemical Safety Assessment : Not applicable.

SECTION 16: Other information

Abbreviations and acronyms :

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

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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Version : 1.02

Notice to reader

SECTION 16: Other information

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.