

# SAFETY DATA SHEET

ADVIA® 120/2120/2120i CN-Free CBC TIMEPAC

**SIEMENS**  
**Healthineers**

SDS no. : 08008297

## Section 1. Identification

**Product identifier** : ADVIA® 120/2120/2120i CN-Free CBC TIMEPAC  
**Product code** : 08008297, T01-3626-52, 10341169  
**Supplier**  
**Supplier/Manufacturer** : Siemens Healthcare Pty Ltd.  
Level 3, 141 Camberwell Road  
Hawthorn East VIC 3123  
Technical Information:  
1800 310 300  
**e-mail** : dx.msds.healthcare@siemens-healthineers.com  
**Emergency telephone number** : 13 11 26 (Poison Information Centre) - 24 hours  
02 9037 2994 (CHEMTREC) - 24 hours  
+1 703-527-3887 (CHEMTREC international number) - 24 hours

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

**Identified uses** : Diagnostic agents.  
**Restrictions on use** : For professional users only.

## Section 2. Hazard(s) identification

**Classification of the substance or mixture** : ADVIA® DEFOAMER : Not classified.  
ADVIA® RBC/PLT : Not classified.  
ADVIA® BASO : Not classified.  
ADVIA® HGB Reagent, Cyanide Free : CORROSIVE TO METALS - Category 1  
SERIOUS EYE DAMAGE/EYE  
IRRITATION - Category 2A  
REPRODUCTIVE TOXICITY - Category 1

### GHS label elements

**Hazard pictograms** :



**Signal word** :

ADVIA® DEFOAMER : No signal word.  
ADVIA® RBC/PLT : No signal word.  
ADVIA® BASO : No signal word.  
ADVIA® HGB Reagent, Cyanide Free : DANGER

**Hazard statements** :

ADVIA® DEFOAMER : No known significant effects or critical hazards.  
ADVIA® RBC/PLT : No known significant effects or critical hazards.  
ADVIA® BASO : No known significant effects or critical hazards.  
ADVIA® HGB Reagent, Cyanide Free : May be corrosive to metals.  
Causes serious eye irritation.  
May damage fertility or the unborn child.

### Precautionary statements

## Section 2. Hazard(s) identification

<b>Prevention</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	Not applicable. Not applicable. Not applicable. Obtain special instructions before use. Keep only in original packaging. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.
<b>Response</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	Not applicable. Not applicable. Not applicable. Absorb spillage to prevent material damage. IF exposed or concerned: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
<b>Storage</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	Not applicable. Not applicable. Not applicable. Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Additional information</b>	: Not available.	

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	Mixture Mixture Mixture Mixture
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Ingredient name	% (w/w)	CAS number
<b>ADVIA® DEFOAMER</b> stearic acid, monoester with glycerol	≤3	31566-31-1
<b>ADVIA® HGB Reagent, Cyanide Free</b> dodecyldimethylamine oxide	<3	1643-20-5
disodium tetraborate decahydrate	≤3	1303-96-4

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 and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: ADVIA® DEFOAMER	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.
	ADVIA® RBC/PLT	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.
	ADVIA® BASO	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.
	ADVIA® HGB Reagent, Cyanide Free	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
<b>Inhalation</b>	: ADVIA® DEFOAMER	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	ADVIA® RBC/PLT	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	ADVIA® BASO	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	ADVIA® HGB Reagent, Cyanide Free	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.
<b>Skin contact</b>	: ADVIA® DEFOAMER	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	ADVIA® RBC/PLT	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	ADVIA® BASO	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	ADVIA® HGB Reagent, Cyanide Free	Flush contaminated skin with plenty of

## Section 4. First aid measures

### Ingestion

: ADVIA® DEFOAMER

ADVIA® RBC/PLT

ADVIA® BASO

ADVIA® HGB Reagent, Cyanide Free

water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Wash out mouth with water. 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.

Wash out mouth with water. 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.

Wash out mouth with water. 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.

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

#### Eye contact

: ADVIA® DEFOAMER

ADVIA® RBC/PLT

ADVIA® BASO

ADVIA® HGB Reagent, Cyanide Free

#### Inhalation

: ADVIA® DEFOAMER

ADVIA® RBC/PLT

ADVIA® BASO

ADVIA® HGB Reagent, Cyanide Free

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Causes serious eye irritation.

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 4. First aid measures

<b>Skin contact</b>	: ADVIA® DEFOAMER	No known significant effects or critical hazards.
	ADVIA® RBC/PLT	No known significant effects or critical hazards.
	ADVIA® BASO	No known significant effects or critical hazards.
	ADVIA® HGB Reagent, Cyanide Free	No known significant effects or critical hazards.
<b>Ingestion</b>	: ADVIA® DEFOAMER	No known significant effects or critical hazards.
	ADVIA® RBC/PLT	No known significant effects or critical hazards.
	ADVIA® BASO	No known significant effects or critical hazards.
	ADVIA® HGB Reagent, Cyanide Free	No known significant effects or critical hazards.

### Over-exposure signs/symptoms

<b>Eye contact</b>	: ADVIA® DEFOAMER	No specific data.
	ADVIA® RBC/PLT	No specific data.
	ADVIA® BASO	No specific data.
	ADVIA® HGB Reagent, Cyanide Free	Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: ADVIA® DEFOAMER	No specific data.
	ADVIA® RBC/PLT	No specific data.
	ADVIA® BASO	No specific data.
	ADVIA® HGB Reagent, Cyanide Free	No specific data.
<b>Skin contact</b>	: ADVIA® DEFOAMER	No specific data.
	ADVIA® RBC/PLT	No specific data.
	ADVIA® BASO	No specific data.
	ADVIA® HGB Reagent, Cyanide Free	No specific data.
<b>Ingestion</b>	: ADVIA® DEFOAMER	No specific data.
	ADVIA® RBC/PLT	No specific data.
	ADVIA® BASO	No specific data.
	ADVIA® HGB Reagent, Cyanide Free	No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	: ADVIA® DEFOAMER	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	ADVIA® RBC/PLT	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	ADVIA® BASO	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	ADVIA® HGB Reagent, Cyanide Free	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.
<b>Specific treatments</b>	: ADVIA® DEFOAMER	No specific treatment.
	ADVIA® RBC/PLT	No specific treatment.
	ADVIA® BASO	No specific treatment.
	ADVIA® HGB Reagent, Cyanide Free	No specific treatment.

## Section 4. First aid measures

<b>Protection of first-aiders</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
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See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: None known.

<b>Specific hazards arising from the chemical</b>	: In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: No specific data.

<b>Special protective actions for fire-fighters</b>	: 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.
<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.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: 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".

<b>Environmental precautions</b>	: 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).
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### Methods and material for containment and cleaning up

<b>Small spill</b>	: 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.
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## Section 6. Accidental release measures

- 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.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- 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.
- 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. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>ADVIA® DEFOAMER</b> stearic acid, monoester with glycerol	<b>Safe Work Australia (Australia, 12/2019). [Stearates]</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
<b>ADVIA® HGB Reagent, Cyanide Free</b> disodium tetraborate decahydrate	<b>Safe Work Australia (Australia, 12/2019).</b> TWA: 5 mg/m <sup>3</sup> 8 hours.

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- 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.

### Individual protection measures

## Section 8. Exposure controls and personal protection

- 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

<b>Physical state</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	Liquid. Liquid. Liquid. Liquid.
<b>Colour</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	Off-white. Colourless. Colourless. Colourless.
<b>Odour</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	Odourless. Odourless. Odourless. Odourless.
<b>Odour threshold</b>	: Not relevant/applicable due to nature of the product.	
<b>pH</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	5 to 8 7.4 1.8 [Conc. (% w/w): 0.033%] 11.2 [Conc. (% w/w): 0.4%]
<b>Melting point/freezing point</b>	: Not relevant/applicable due to nature of the product.	
<b>Softening point</b>	: Not relevant/applicable due to nature of the product.	
<b>Sublimation temperature</b>	: Not relevant/applicable due to nature of the product.	
<b>Boiling point, initial boiling point, and boiling range</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	Not available. Not available. Not available. Not available.



## Section 9. Physical and chemical properties

<b>Flash point</b>	: ADVIA® DEFOAMER	[Product does not sustain combustion.]
	ADVIA® RBC/PLT	[Product does not sustain combustion.]
	ADVIA® BASO	[Product does not sustain combustion.]
	ADVIA® HGB Reagent, Cyanide Free	[Product does not sustain combustion.]

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<b>ADVIA® DEFOAMER</b> Poly(oxy-1,2-ethanediyl), α-(1-oxooctadecyl)-ω-hydroxy-	>149	>300.2				
<b>ADVIA® BASO</b> Dodecan-1-ol, ethoxylated	>109.85	>229.7				
<b>ADVIA® HGB Reagent, Cyanide Free</b> dodecyltrimethylamine oxide	261	501.8				

<b>Fire point</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.


**Burning time** : Not relevant/applicable due to nature of the product.

**Fundamental burning velocity** : Not relevant/applicable due to nature of the product.

**Burning rate** : Not relevant/applicable due to nature of the product.

**Evaporation rate** : Not relevant/applicable due to nature of the product.

<b>Flammability</b>	: ADVIA® DEFOAMER	Not relevant/applicable due to nature of the product.
	ADVIA® RBC/PLT	Not relevant/applicable due to nature of the product.
	ADVIA® BASO	Not relevant/applicable due to nature of the product.
	ADVIA® HGB Reagent, Cyanide Free	Not relevant/applicable due to nature of the product.

<b>Lower and upper explosion limit/flammability limit</b>	:  ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.

**Vapour pressure** :  Not available.

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
<b>ADVIA® DEFOAMER</b> water	23.8	3.2				
<b>ADVIA® RBC/PLT</b> water	23.8	3.2				
<b>ADVIA® BASO</b> water	23.8	3.2				
<b>ADVIA® HGB Reagent, Cyanide Free</b> water	23.8	3.2				

## Section 9. Physical and chemical properties

<b>Relative vapour density</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.
<b>Relative density</b>	: ADVIA® DEFOAMER	1
	ADVIA® RBC/PLT	1
	ADVIA® BASO	1
	ADVIA® HGB Reagent, Cyanide Free	1
<b>Density</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.

**Solubility(ies)** :  
Not available.

**Solubility in water** : Not relevant/applicable due to nature of the product.

**Miscible with water** : Not relevant/applicable due to nature of the product.

**Partition coefficient: n-octanol/water** : Not relevant/applicable due to nature of the product.

**Auto-ignition temperature** : Not relevant/applicable due to nature of the product.

Ingredient name	°C	°F	Method
ADVIA® RBC/PLT tetrasodium ethylene diamine tetraacetate	>200	>392	

**Decomposition temperature** : Not relevant/applicable due to nature of the product.

**SADT** : Not relevant/applicable due to nature of the product.

**SAPT** : Not relevant/applicable due to nature of the product.

**Heat of reaction** : Not relevant/applicable due to nature of the product.

**Heat of combustion** : Not relevant/applicable due to nature of the product.

**Viscosity** : ADVIA® DEFOAMER Not available.  
ADVIA® RBC/PLT Not available.  
ADVIA® BASO Not available.  
ADVIA® HGB Reagent, Cyanide Free Not available.

**Flow time (ISO 2431)** : Not relevant/applicable due to nature of the product.

**Molecular weight** : ADVIA® DEFOAMER Not applicable.  
ADVIA® RBC/PLT Not applicable.  
ADVIA® BASO Not applicable.  
ADVIA® HGB Reagent, Cyanide Free Not applicable.

### Particle characteristics

**Median particle size** : Not applicable.

**Size distribution** :

**Aspect ratio** : Not applicable.

**Specific surface area** : Not applicable.

**Shape** : Not applicable.

**Crystallinity** : Not applicable.

**Percentage of particles with aerodynamic diameter ≤ 10 µm** : Not applicable.

**Additional information** : Not applicable.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: ADVIA® DEFOAMER	No specific test data related to reactivity available for this product or its ingredients.
	ADVIA® RBC/PLT	No specific test data related to reactivity available for this product or its ingredients.
	ADVIA® BASO	No specific test data related to reactivity available for this product or its ingredients.
	ADVIA® HGB Reagent, Cyanide Free	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: ADVIA® DEFOAMER	The product is stable.
	ADVIA® RBC/PLT	The product is stable.
	ADVIA® BASO	The product is stable.
	ADVIA® HGB Reagent, Cyanide Free	The product is stable.
<b>Possibility of hazardous reactions</b>	: ADVIA® DEFOAMER	Under normal conditions of storage and use, hazardous reactions will not occur.
	ADVIA® RBC/PLT	Under normal conditions of storage and use, hazardous reactions will not occur.
	ADVIA® BASO	Under normal conditions of storage and use, hazardous reactions will not occur.
	ADVIA® HGB Reagent, Cyanide Free	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: ADVIA® DEFOAMER	No specific data.
	ADVIA® RBC/PLT	No specific data.
	ADVIA® BASO	No specific data.
	ADVIA® HGB Reagent, Cyanide Free	No specific data.
<b>Incompatible materials</b>	: ADVIA® DEFOAMER	No specific data.
	ADVIA® RBC/PLT	No specific data.
	ADVIA® BASO	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.
	ADVIA® HGB Reagent, Cyanide Free	Reactive or incompatible with the following materials: alkalis Reactive or incompatible with the following materials: metals
<b>Hazardous decomposition products</b>	: ADVIA® DEFOAMER	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	ADVIA® RBC/PLT	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	ADVIA® BASO	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	ADVIA® HGB Reagent, Cyanide Free	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ADVIA® HGB Reagent, Cyanide Free disodium tetraborate decahydrate	LD50 Oral	Rat	2660 mg/kg	-

<b>Conclusion/Summary</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ADVIA® HGB Reagent, Cyanide Free dodecyldimethylamine oxide	Eyes - Severe irritant	Rabbit	-	1 %	-
	Skin - Mild irritant	Human	-	48 hours 3.7 %	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-

#### Conclusion/Summary

<b>Skin</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.
<b>Eyes</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.
<b>Respiratory</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.

#### Sensitisation

Not available.

#### Conclusion/Summary

<b>Skin</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.
<b>Respiratory</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.

#### Mutagenicity

Not available.

<b>Conclusion/Summary</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.

#### Carcinogenicity

Not available.

## Section 11. Toxicological information

<b>Conclusion/Summary</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	Not available. Not available. Not available. Not available.
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### Reproductive toxicity

Not available.

<b>Conclusion/Summary</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	Not available. Not available. Not available. Not available.
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### Teratogenicity

Not available.

<b>Conclusion/Summary</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	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.

<b>Information on likely routes of exposure</b>	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® BASO ADVIA® HGB Reagent, Cyanide Free	Not available. Not available. Not available. Not available.
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### Potential acute health effects

<b>Eye contact</b>	: ADVIA® DEFOAMER  ADVIA® RBC/PLT  ADVIA® BASO  ADVIA® HGB Reagent, Cyanide Free	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes serious eye irritation.
<b>Inhalation</b>	: ADVIA® DEFOAMER  ADVIA® RBC/PLT  ADVIA® BASO  ADVIA® HGB Reagent, Cyanide Free	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.
<b>Skin contact</b>	: ADVIA® DEFOAMER  ADVIA® RBC/PLT  ADVIA® BASO  ADVIA® HGB Reagent, Cyanide Free	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

<b>Ingestion</b>	: ADVIA® DEFOAMER	No known significant effects or critical hazards.
	ADVIA® RBC/PLT	No known significant effects or critical hazards.
	ADVIA® BASO	No known significant effects or critical hazards.
	ADVIA® HGB Reagent, Cyanide Free	No known significant effects or critical hazards.

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

<b>Eye contact</b>	: ADVIA® DEFOAMER	No specific data.
	ADVIA® RBC/PLT	No specific data.
	ADVIA® BASO	No specific data.
	ADVIA® HGB Reagent, Cyanide Free	Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: ADVIA® DEFOAMER	No specific data.
	ADVIA® RBC/PLT	No specific data.
	ADVIA® BASO	No specific data.
	ADVIA® HGB Reagent, Cyanide Free	No specific data.
<b>Skin contact</b>	: ADVIA® DEFOAMER	No specific data.
	ADVIA® RBC/PLT	No specific data.
	ADVIA® BASO	No specific data.
	ADVIA® HGB Reagent, Cyanide Free	No specific data.
<b>Ingestion</b>	: ADVIA® DEFOAMER	No specific data.
	ADVIA® RBC/PLT	No specific data.
	ADVIA® BASO	No specific data.
	ADVIA® HGB Reagent, Cyanide Free	No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

<b>Potential immediate effects</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.
<b>Potential delayed effects</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.

#### Long term exposure

<b>Potential immediate effects</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.
<b>Potential delayed effects</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.

#### Potential chronic health effects

Not available.

<b>Conclusion/Summary</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.

## Section 11. Toxicological information

<b>General</b>	: ADVIA® DEFOAMER	No known significant effects or critical hazards.
	ADVIA® RBC/PLT	No known significant effects or critical hazards.
	ADVIA® BASO	No known significant effects or critical hazards.
	ADVIA® HGB Reagent, Cyanide Free	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: ADVIA® DEFOAMER	No known significant effects or critical hazards.
	ADVIA® RBC/PLT	No known significant effects or critical hazards.
	ADVIA® BASO	No known significant effects or critical hazards.
	ADVIA® HGB Reagent, Cyanide Free	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: ADVIA® DEFOAMER	No known significant effects or critical hazards.
	ADVIA® RBC/PLT	No known significant effects or critical hazards.
	ADVIA® BASO	No known significant effects or critical hazards.
	ADVIA® HGB Reagent, Cyanide Free	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: May damage fertility or the unborn child.	

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>ADVIA® HGB Reagent, Cyanide Free</b>					
ADVIA® HGB Reagent, Cyanide Free	25070	N/A	N/A	N/A	N/A
dodecyldimethylamine oxide	500	N/A	N/A	N/A	N/A
disodium tetraborate decahydrate	2660	N/A	N/A	N/A	N/A

<b>Interactive effects</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.
<b>Other information</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
<b>ADVIA® HGB Reagent, Cyanide Free</b>			
disodium tetraborate decahydrate	Acute EC50 1645 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours

<b>Conclusion/Summary</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.

## Section 12. Ecological information

### Persistence and degradability

<b>Conclusion/Summary</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>ADVIA® DEFOAMER</b> stearic acid, monoester with glycerol	6.1	-	high

### Mobility in soil

<b>Soil/water partition coefficient (K<sub>oc</sub>)</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.
<b>Mobility</b>	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® BASO	Not available.
	ADVIA® HGB Reagent, Cyanide Free	Not available.

<b>Other adverse effects</b>	: ADVIA® DEFOAMER	No known significant effects or critical hazards.
	ADVIA® RBC/PLT	No known significant effects or critical hazards.
	ADVIA® BASO	No known significant effects or critical hazards.
	ADVIA® HGB Reagent, Cyanide Free	No known significant effects or critical hazards.

## Section 13. Disposal considerations

<b>Disposal methods</b>	: 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
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## Section 14. Transport information

### ADG

<b>14.1 UN number</b>	ADVIA® DEFOAMER	Not regulated.
	ADVIA® RBC/PLT	Not regulated.
	ADVIA® BASO	Not regulated.
	ADVIA® HGB Reagent, Cyanide Free	UN1824
<b>14.2 UN proper shipping name</b>	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® BASO	-
	ADVIA® HGB Reagent, Cyanide Free	Sodium hydroxide solution



**Section 14. Transport information**

<b>14.3 Transport hazard class(es)</b>	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® BASO	-
	ADVIA® HGB Reagent, Cyanide Free	8

<b>14.4 Packing group</b>	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® BASO	-
	ADVIA® HGB Reagent, Cyanide Free	III

<b>14.5 Environmental hazards</b>	ADVIA® DEFOAMER	No.
	ADVIA® RBC/PLT	No.
	ADVIA® BASO	No.
	ADVIA® HGB Reagent, Cyanide Free	No.

<b>Additional information</b>	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® BASO	-
	ADVIA® HGB Reagent, Cyanide Free	-

**IMDG**

<b>14.1 UN number</b>	ADVIA® DEFOAMER	Not regulated.
	ADVIA® RBC/PLT	Not regulated.
	ADVIA® BASO	Not regulated.
	ADVIA® HGB Reagent, Cyanide Free	UN1824
<b>14.2 UN proper shipping name</b>	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® BASO	-
	ADVIA® HGB Reagent, Cyanide Free	SODIUM HYDROXIDE, SOLUTION
<b>14.3 Transport hazard class(es)</b>	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® BASO	-
	ADVIA® HGB Reagent, Cyanide Free	8

<b>14.4 Packing group</b>	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® BASO	-
	ADVIA® HGB Reagent, Cyanide Free	III

<b>14.5 Environmental hazards</b>	ADVIA® DEFOAMER	No.
	ADVIA® RBC/PLT	No.
	ADVIA® BASO	No.
	ADVIA® HGB Reagent, Cyanide Free	No.

<b>Additional information</b>	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® BASO	-
	ADVIA® HGB Reagent, Cyanide Free	-

**IATA**

<b>14.1 UN number</b>	ADVIA® DEFOAMER	Not regulated.
	ADVIA® RBC/PLT	Not regulated.
	ADVIA® BASO	Not regulated.
	ADVIA® HGB Reagent, Cyanide Free	UN1824
<b>14.2 UN proper shipping name</b>	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® BASO	-
	ADVIA® HGB Reagent, Cyanide Free	SODIUM HYDROXIDE, SOLUTION

## Section 14. Transport information

<b>14.3 Transport hazard class(es)</b>	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® BASO	-
	ADVIA® HGB Reagent, Cyanide Free	8
<b>14.4 Packing group</b>	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® BASO	-
	ADVIA® HGB Reagent, Cyanide Free	III
<b>14.5 Environmental hazards</b>	ADVIA® DEFOAMER	No.
	ADVIA® RBC/PLT	No.
	ADVIA® BASO	No.
	ADVIA® HGB Reagent, Cyanide Free	No.
<b>Additional information</b>	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® BASO	-
	ADVIA® HGB Reagent, Cyanide Free	-

**Special precautions for user** : ADVIA® DEFOAMER

ADVIA® RBC/PLT

ADVIA® BASO

ADVIA® HGB Reagent, Cyanide Free

### 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.

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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.

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### 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.

## Section 15. Regulatory information

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

<b>Australia inventory (AIIIC)</b>	: ADVIA® DEFOAMER	Not determined.
	ADVIA® RBC/PLT	All components are listed or exempted.
	ADVIA® BASO	Not determined.
	ADVIA® HGB Reagent, Cyanide Free	All components are listed or exempted.

## Section 16. Any other relevant information

### History

Date of printing : 11/13/2022

Date of issue/Date of revision : 11/13/2022

Date of previous issue : 3/4/2022

Version : 1.05

**Key to abbreviations** : ADG = Australian Dangerous Goods  
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 SUSMP = Standard Uniform Schedule of Medicine and Poisons  
 UN = United Nations N/A = Not available SGG = Segregation Group

### Procedure used to derive the classification

Classification	Justification
<b>ADVIA® HGB Reagent, Cyanide Free</b> CORROSIVE TO METALS - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A REPRODUCTIVE TOXICITY - Category 1	On basis of test data Calculation method Calculation method

**References** : Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

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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.