

SAFETY DATA SHEET

ADVIA® 120/2120/2120i CBC TIMEPAC

SDS #: T01-3620-52

Section 1. Identification

Product identifier : ADVIA® 120/2120/2120i CBC TIMEPAC
Product code : 09826813, T01-3620-52, 10312269
Product type : Liquid.

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

Not applicable.

Manufactured/supplied : Siemens Healthcare Diagnostics Inc.
 511 Benedict Avenue
 Tarrytown, NY 10591-5097 USA
 1-877-229-3711

Emergency telephone number (800) 424-9300 (CHEMTREC) (24/365)

Section 2. Hazards identification

OSHA/HCS status : ADVIA® DEFOAMER

ADVIA® RBC/PLT

ADVIA® HGB

ADVIA® BASO

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : **ADVIA® RBC/PLT**
 RESPIRATORY SENSITIZATION

Category 1

ADVIA® HGB
 CORROSIVE TO METALS
 EYE IRRITATION
 TOXIC TO REPRODUCTION

Category 1
 Category 2A
 Category 2

Additional information : Not available.

Not available.

GHS label elements

Hazard pictograms :



Section 2. Hazards identification

Signal word	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	No signal word. Danger Warning No signal word.
Hazard statements	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	No known significant effects or critical hazards. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H290 - May be corrosive to metals. H319 - Causes serious eye irritation. H361 - Suspected of damaging fertility or the unborn child. No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	:  ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not applicable. P261 - Avoid breathing vapor. P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P234 - Keep only in original packaging. P264 - Wash thoroughly after handling. Not applicable.
Response	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB	Not applicable. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor. P390 - Absorb spillage to prevent material damage. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: ADVIA® BASO ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: ADVIA® BASO ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not applicable. None known. None known. None known. None known.

Section 2. Hazards identification

Hazards not otherwise classified	: ADVIA® DEFOAMER	None known.
	ADVIA® RBC/PLT	None known.
	ADVIA® HGB	None known.
	ADVIA® BASO	None known.

Section 3. Composition/information on ingredients

Substance/mixture	: ADVIA® DEFOAMER	Mixture
	ADVIA® RBC/PLT	Mixture
	ADVIA® HGB	Mixture
	ADVIA® BASO	Mixture

Ingredient name	%	CAS number
ADVIA® RBC/PLT		
glutaral	≤0.3	111-30-8
ADVIA® HGB		
dodecyltrimethylamine oxide	<3	1643-20-5
disodium tetraborate decahydrate	≤3	1303-96-4
sodium hydroxide	<0.5	1310-73-2
ADVIA® BASO		
Dodecan-1-ol, ethoxylated	≤3	9002-92-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional 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

Eye contact	: 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. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
	ADVIA® HGB	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.
	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.

Section 4. First aid measures

Inhalation	: 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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 the event of any complaints or symptoms, avoid further exposure.
	ADVIA® HGB	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.
	ADVIA® BASO	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: 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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	ADVIA® HGB	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	ADVIA® BASO	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First aid measures

Ingestion : ADVIA® DEFOAMER

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.

ADVIA® RBC/PLT

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 if adverse health effects persist or are severe. 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.

ADVIA® HGB

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.

ADVIA® BASO

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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : ADVIA® DEFOAMER

No known significant effects or critical hazards.

ADVIA® RBC/PLT

No known significant effects or critical hazards.

ADVIA® HGB

Causes serious eye irritation.

ADVIA® BASO

No known significant effects or critical hazards.

Section 4. First aid measures

Inhalation	: ADVIA® DEFOAMER	No known significant effects or critical hazards.
	ADVIA® RBC/PLT	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	ADVIA® HGB	No known significant effects or critical hazards.
	ADVIA® BASO	No known significant effects or critical hazards.
Skin contact	: ADVIA® DEFOAMER	No known significant effects or critical hazards.
	ADVIA® RBC/PLT	No known significant effects or critical hazards.
	ADVIA® HGB	No known significant effects or critical hazards.
	ADVIA® BASO	No known significant effects or critical hazards.
Ingestion	: ADVIA® DEFOAMER	No known significant effects or critical hazards.
	ADVIA® RBC/PLT	No known significant effects or critical hazards.
	ADVIA® HGB	No known significant effects or critical hazards.
	ADVIA® BASO	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: ADVIA® DEFOAMER	No specific data.
	ADVIA® RBC/PLT	No specific data.
	ADVIA® HGB	Adverse symptoms may include the following: pain or irritation watering redness
	ADVIA® BASO	No specific data.
Inhalation	: ADVIA® DEFOAMER	No specific data.
	ADVIA® RBC/PLT	Adverse symptoms may include the following: wheezing and breathing difficulties asthma
	ADVIA® HGB	No specific data.
	ADVIA® BASO	No specific data.
Skin contact	: ADVIA® DEFOAMER	No specific data.
	ADVIA® RBC/PLT	No specific data.
	ADVIA® HGB	No specific data.
	ADVIA® BASO	No specific data.
Ingestion	: ADVIA® DEFOAMER	No specific data.
	ADVIA® RBC/PLT	No specific data.
	ADVIA® HGB	No specific data.
	ADVIA® BASO	No specific data.

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

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : No specific data.

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.

Section 6. Accidental release measures

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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized 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".

Environmental precautions : Avoid dispersal of spilled 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).

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. Approach 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 spilled 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 vapor 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.

Section 7. Handling and storage

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
ADVIA® RBC/PLT glutaral	ACGIH TLV (United States, 1/2021). Skin sensitizer. Inhalation sensitizer. C: 0.05 ppm NIOSH REL (United States, 10/2020). CEIL: 0.8 mg/m ³ CEIL: 0.2 ppm OSHA PEL 1989 (United States, 3/1989). CEIL: 0.8 mg/m ³ CEIL: 0.2 ppm
ADVIA® HGB disodium tetraborate decahydrate	OSHA PEL 1989 (United States, 3/1989). TWA: 10 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 5 mg/m ³ 10 hours. ACGIH TLV (United States, 1/2021). [Borate compounds, Inorganic] TWA: 2 mg/m ³ 8 hours. Form: Inhalable fraction STEL: 6 mg/m ³ 15 minutes. Form: Inhalable fraction
sodium hydroxide	ACGIH TLV (United States, 1/2021). C: 2 mg/m ³ NIOSH REL (United States, 10/2020). CEIL: 2 mg/m ³ OSHA PEL (United States, 5/2018). TWA: 2 mg/m ³ 8 hours. OSHA PEL 1989 (United States, 3/1989). CEIL: 2 mg/m ³

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor 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/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.
<u>Skin protection</u>	
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

Physical state	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Liquid. Liquid. Liquid. Liquid.
Color	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Off-white. Colorless. Colorless. Colorless.
Odor	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Odorless. Odorless. Odorless. Odorless.
pH	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	5 to 8 7.4 11 1.8 [Conc. (% w/w): 0.033%]
Flash point	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	[Product does not sustain combustion.] [Product does not sustain combustion.] [Product does not sustain combustion.] [Product does not sustain combustion.]
Flammability (solid, gas)	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
Relative density	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	1 1 1 1
Solubility(ies)	:	

Section 9. Physical and chemical properties

Not available.

Solubility in water	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.
Partition coefficient: n-octanol/water	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
Auto-ignition temperature	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.
Viscosity	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product. Not relevant/applicable due to nature of the product.
<u>Aerosol product</u>		
Type of aerosol	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not applicable. Not applicable. Not applicable. Not applicable.

Section 10. Stability and reactivity

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

Section 10. Stability and reactivity

explosive mixtures with air.
Reactive or incompatible with the following materials:
alkalis

Hazardous decomposition products : ADVIA® DEFOAMER

ADVIA® RBC/PLT

ADVIA® HGB

ADVIA® BASO

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.

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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® RBC/PLT glutaral	LC50 Inhalation Vapor LD50 Oral	Rat Rat	480 mg/m ³ 134 mg/kg	4 hours -
ADVIA® HGB disodium tetraborate decahydrate	LD50 Oral	Rat	2660 mg/kg	-

Conclusion/Summary : ADVIA® DEFOAMER
ADVIA® RBC/PLT
ADVIA® HGB
ADVIA® BASO

Not available.
Not available.
Not available.
Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ADVIA® RBC/PLT glutaral	Eyes - Severe irritant Eyes - Severe irritant	Rabbit Rabbit	- -	1 mg 24 hours 250 ug	- -
	Skin - Mild irritant Skin - Severe irritant	Rabbit Human	- -	13 mg 72 hours 6 mg l	- -
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
ADVIA® HGB dodecyldimethylamine oxide	Eyes - Severe irritant Skin - Mild irritant	Rabbit Human	- -	1 % 48 hours 3.7 %	- -
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
sodium hydroxide	Eyes - Mild irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant	Rabbit Monkey Rabbit Rabbit	- - - -	400 ug 24 hours 1 % 1 % 0.5 minutes 1 mg	- - - -
	Eyes - Severe irritant	Rabbit	-	24 hours 50 ug	-
	Skin - Mild irritant Skin - Severe irritant	Human Rabbit	- -	24 hours 2 % 24 hours 500 mg	- -
ADVIA® BASO					

Section 11. Toxicological information

Dodecan-1-ol, ethoxylated	Eyes - Severe irritant	Rabbit	-	24 hours 750 Micrograms	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Moderate irritant	Human	-	72 hours 6 milligrams	-
	Skin - Moderate irritant	Rabbit	-	Intermittent 24 hours 500 milligrams	-

Conclusion/Summary

Skin	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.
Eyes	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.
Respiratory	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.

Sensitization

Not available.

Conclusion/Summary

Skin	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.
Respiratory	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.

Mutagenicity

Not available.

Conclusion/Summary	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.
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Carcinogenicity

Not available.

Conclusion/Summary	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.
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Reproductive toxicity

Not available.

Conclusion/Summary	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.
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Teratogenicity

Not available.

Conclusion/Summary	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.
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Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
ADVIA® RBC/PLT glutaral	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : ADVIA® DEFOAMER
ADVIA® RBC/PLT
ADVIA® HGB
ADVIA® BASO

Not available.
Not available.
Not available.
Not available.

Potential acute health effects

Eye contact : ADVIA® DEFOAMER

ADVIA® RBC/PLT

ADVIA® HGB
ADVIA® BASO

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.

Inhalation : ADVIA® DEFOAMER

ADVIA® RBC/PLT

ADVIA® HGB
ADVIA® BASO

No known significant effects or critical hazards.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Skin contact : ADVIA® DEFOAMER

ADVIA® RBC/PLT

ADVIA® HGB
ADVIA® BASO

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 : ADVIA® DEFOAMER

ADVIA® RBC/PLT

ADVIA® HGB
ADVIA® BASO

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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : ADVIA® DEFOAMER
ADVIA® RBC/PLT
ADVIA® HGB

ADVIA® BASO

No specific data.
No specific data.
Adverse symptoms may include the following:
pain or irritation
watering
redness
No specific data.

Section 11. Toxicological information

Inhalation	: ADVIA® DEFOAMER ADVIA® RBC/PLT	No specific data. Adverse symptoms may include the following: wheezing and breathing difficulties asthma
	ADVIA® HGB ADVIA® BASO	No specific data. No specific data.
Skin contact	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	No specific data. No specific data. No specific data. No specific data.
Ingestion	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	No specific data. No specific data. No specific data. No specific data.

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

Short term exposure

Potential immediate effects	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.
Potential delayed effects	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.

Long term exposure

Potential immediate effects	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.
Potential delayed effects	: ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO	Not available. Not available. Not available. Not available.

Potential chronic health effects

Not available.

Conclusion/Summary	: Not available. Not available. Not available. Not available.	ADVIA® DEFOAMER ADVIA® RBC/PLT ADVIA® HGB ADVIA® BASO
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General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : Suspected of damaging 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 (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
ADVIA® RBC/PLT glutaral	134	N/A	N/A	3	N/A
ADVIA® HGB ADVIA® HGB	21246	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

Section 11. Toxicological information

Interactive effects	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® HGB	Not available.
	ADVIA® BASO	Not available.
Other information	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® HGB	Not available.
	ADVIA® BASO	Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
ADVIA® RBC/PLT glutaral	Acute EC50 0.75 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5.4 ppm Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 3.41 ppm	Fish - Oncorhynchus mykiss	97 days
ADVIA® HGB disodium tetraborate decahydrate sodium hydroxide	Acute EC50 1645 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 40.38 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 125 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

Conclusion/Summary	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® HGB	Not available.
	ADVIA® BASO	Not available.

Persistence and degradability

Conclusion/Summary	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® HGB	Not available.
	ADVIA® BASO	Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
ADVIA® RBC/PLT glutaral	-0.36	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc})	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® HGB	Not available.
	ADVIA® BASO	Not available.
Mobility	: ADVIA® DEFOAMER	Not available.
	ADVIA® RBC/PLT	Not available.
	ADVIA® HGB	Not available.
	ADVIA® BASO	Not available.

Other adverse effects	: No known significant effects or critical hazards.
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Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

DOT Classification

UN number	ADVIA® DEFOAMER	Not regulated.
	ADVIA® RBC/PLT	Not regulated.
	ADVIA® HGB	UN1824
	ADVIA® BASO	Not regulated.
UN proper shipping name	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	SODIUM HYDROXIDE, SOLUTION
	ADVIA® BASO	-
Transport hazard class(es)	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	8
	ADVIA® BASO	-
Packing group	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	III
	ADVIA® BASO	-
Environmental hazards	ADVIA® DEFOAMER	No.
	ADVIA® RBC/PLT	No.
	ADVIA® HGB	No.
	ADVIA® BASO	No.
Additional information	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	-
	ADVIA® BASO	-

TDG Classification

UN number	ADVIA® DEFOAMER	Not regulated.
	ADVIA® RBC/PLT	Not regulated.
	ADVIA® HGB	UN1824
	ADVIA® BASO	Not regulated.
UN proper shipping name	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	SODIUM HYDROXIDE, SOLUTION
	ADVIA® BASO	-
Transport hazard class(es)	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	8
	ADVIA® BASO	-

Section 14. Transport information

Packing group	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	III
	ADVIA® BASO	-
Environmental hazards	ADVIA® DEFOAMER	No.
	ADVIA® RBC/PLT	No.
	ADVIA® HGB	No.
	ADVIA® BASO	No.
Additional information	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8).
	ADVIA® BASO	-

ADR/RID

UN number	ADVIA® DEFOAMER	Not regulated.
	ADVIA® RBC/PLT	Not regulated.
	ADVIA® HGB	UN1824
	ADVIA® BASO	Not regulated.
UN proper shipping name	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	SODIUM HYDROXIDE, SOLUTION
	ADVIA® BASO	-
Transport hazard class(es)	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	8
	ADVIA® BASO	-

Packing group	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	III
	ADVIA® BASO	-
Environmental hazards	ADVIA® DEFOAMER	No.
	ADVIA® RBC/PLT	No.
	ADVIA® HGB	No.
	ADVIA® BASO	No.
Additional information	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	-
	ADVIA® BASO	-

IMDG

UN number	ADVIA® DEFOAMER	Not regulated.
	ADVIA® RBC/PLT	Not regulated.
	ADVIA® HGB	UN1824
	ADVIA® BASO	Not regulated.
UN proper shipping name	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	SODIUM HYDROXIDE, SOLUTION
	ADVIA® BASO	-
	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	8
	ADVIA® BASO	-

Section 14. Transport information

Transport
hazard class(es)

Packing group	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	III
	ADVIA® BASO	-
Environmental hazards	ADVIA® DEFOAMER	No.
	ADVIA® RBC/PLT	No.
	ADVIA® HGB	No.
	ADVIA® BASO	No.
Additional information	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	-
	ADVIA® BASO	-
IATA		
UN number	ADVIA® DEFOAMER	Not regulated.
	ADVIA® RBC/PLT	Not regulated.
	ADVIA® HGB	UN1824
	ADVIA® BASO	Not regulated.
UN proper shipping name	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	SODIUM HYDROXIDE, SOLUTION
	ADVIA® BASO	-
Transport hazard class(es)	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	8
	ADVIA® BASO	-

Packing group	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	III
	ADVIA® BASO	-
Environmental hazards	ADVIA® DEFOAMER	No.
	ADVIA® RBC/PLT	No.
	ADVIA® HGB	No.
	ADVIA® BASO	No.
Additional information	ADVIA® DEFOAMER	-
	ADVIA® RBC/PLT	-
	ADVIA® HGB	-
	ADVIA® BASO	-

Special precautions for user : ADVIA® DEFOAMER

ADVIA® RBC/PLT

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

Section 14. Transport information

ADVIA® HGB

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.

ADVIA® BASO

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 in bulk according to IMO instruments : Not applicable.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) PAIR: glutaral; Siloxanes and Silicones, di-Me
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Commerce control list precursor: potassium cyanide

Clean Water Act (CWA) 307: potassium cyanide

Clean Water Act (CWA) 311: sodium hydroxide; disodium hydrogenorthophosphate; potassium cyanide

Clean Air Act Section 112 : Listed
(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed
Class I Substances

Clean Air Act Section 602 : Not listed
Class II Substances

DEA List I Chemicals : Not listed
(Precursor Chemicals)

DEA List II Chemicals : Not listed
(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
ADVIA® HGB hydrogen cyanide, salts of with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this database	0.15	Yes.	100	-	10	-
ADVIA® BASO Hydrogen chloride	0.033	Yes.	-	-	-	-

SARA 304 RQ : 26666.7 lbs / 12106.7 kg

SARA 311/312

Classification : TOXIC TO REPRODUCTION - Category 2

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Classification
ADVIA® RBC/PLT glutaral	≤0.3	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
ADVIA® HGB dodecyltrimethylamine oxide	<3	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1
disodium tetraborate decahydrate	≤3	TOXIC TO REPRODUCTION - Category 2
sodium hydroxide	<0.5	SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1
ADVIA® BASO Dodecan-1-ol, ethoxylated	≤3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

State regulations

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: None of the components are listed.

California Prop. 65

 **WARNING:** This product can expose you to potassium cyanide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
ADVIA® HGB potassium cyanide	-	Yes.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Section 16. Other information

History

Date of issue/Date of revision : 1/18/2024

Version : 1.12

Key to abbreviations

: 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)
UN = United Nations N/A = Not available SGG = Segregation Group

 Indicates information that has changed from previously issued version.