(2012 OSHA Hazard Communication Standard (29 CFR 1910.1200))

SAFETY DATA SHEET

ADVIA® Chemistry Creatinine Reagents

SIEMENS

MSDS no. 03039070

Section 1. Identification

GHS product identifier : ADVIA® Chemistry Creatinine Reagents

Product code : 03039070, B01-4224-01, B01-4225-01, 10309050

Other means of identification : ADVIA® Chemistry Creatinine R1 Reagent B01-4224-01
ADVIA® Chemistry Creatinine R2 Reagent B01-4225-01

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

(800) 424-9300 (CHEMTREC) (24/365)

Section 2. Hazards identification

OSHA/HCS status :
ADVIA® Chemistry Creatinine R1 Reagent: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
ADVIA® Chemistry Creatinine R2 Reagent: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture :
ADVIA® Chemistry Creatinine R1 Reagent: CORROSIVE TO METALS - Category 1
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
ADVIA® Chemistry Creatinine R2 Reagent: Not classified.

GHS label elements

Hazard pictograms :



Signal word :
ADVIA® Chemistry Creatinine R1 Reagent: Warning
ADVIA® Chemistry Creatinine R2 Reagent: No signal word.

Hazard statements :
ADVIA® Chemistry Creatinine R1 Reagent:
H290 - May be corrosive to metals.
H319 - Causes serious eye irritation.
H315 - Causes skin irritation.
ADVIA® Chemistry Creatinine R2 Reagent: No known significant effects or critical hazards.

Precautionary statements

Prevention :
ADVIA® Chemistry Creatinine R1 Reagent:
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P234 - Keep only in original container.
ADVIA® Chemistry Creatinine R2 Reagent: Not applicable.

Section 2. Hazards identification

Response	:	ADVIA® Chemistry Creatinine R1 Reagent	P390 - Absorb spillage to prevent material damage. P302 + P352 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. P332 + P313 - If skin irritation occurs: Get medical 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 attention.
		ADVIA® Chemistry Creatinine R2 Reagent	Not applicable.
Storage	:	ADVIA® Chemistry Creatinine R1 Reagent	Not applicable.
		ADVIA® Chemistry Creatinine R2 Reagent	Not applicable.
Disposal	:	ADVIA® Chemistry Creatinine R1 Reagent	P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.
		ADVIA® Chemistry Creatinine R2 Reagent	Not applicable.
Supplemental label elements	:	ADVIA® Chemistry Creatinine R1 Reagent	None known.
		ADVIA® Chemistry Creatinine R2 Reagent	None known.
Hazards not otherwise classified	:	ADVIA® Chemistry Creatinine R1 Reagent	None known.
		ADVIA® Chemistry Creatinine R2 Reagent	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	ADVIA® Chemistry Creatinine R1 Reagent	Mixture
		ADVIA® Chemistry Creatinine R2 Reagent	Mixture

Ingredient name	%	CAS number
ADVIA® Chemistry Creatinine R1 Reagent sodium hydroxide	0.8	1310-73-2

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® Chemistry Creatinine R1 Reagent	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® Chemistry Creatinine R2 Reagent	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	:	ADVIA® Chemistry Creatinine R1 Reagent	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

Section 4. First aid measures

			resuscitation. Get medical attention if adverse health effects persist or are severe. 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® Chemistry Creatinine R2 Reagent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	ADVIA® Chemistry Creatinine R1 Reagent	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® Chemistry Creatinine R2 Reagent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	ADVIA® Chemistry Creatinine R1 Reagent	Wash out mouth with water. Remove dentures if any. 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. 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® Chemistry Creatinine R2 Reagent	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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	ADVIA® Chemistry Creatinine R1 Reagent	Causes serious eye irritation.
		ADVIA® Chemistry Creatinine R2 Reagent	No known significant effects or critical hazards.
Inhalation	:	ADVIA® Chemistry Creatinine R1 Reagent	No known significant effects or critical hazards.
		ADVIA® Chemistry Creatinine R2 Reagent	No known significant effects or critical hazards.
Skin contact	:	ADVIA® Chemistry Creatinine R1 Reagent	Causes skin irritation.
		ADVIA® Chemistry Creatinine R2 Reagent	No known significant effects or critical hazards.

Section 4. First aid measures

Ingestion	:	ADVIA® Chemistry Creatinine R1 Reagent	Irritating to mouth, throat and stomach.
		ADVIA® Chemistry Creatinine R2 Reagent	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	ADVIA® Chemistry Creatinine R1 Reagent	Adverse symptoms may include the following: pain or irritation watering redness
		ADVIA® Chemistry Creatinine R2 Reagent	No specific data.
Inhalation	:	ADVIA® Chemistry Creatinine R1 Reagent	No specific data.
		ADVIA® Chemistry Creatinine R2 Reagent	No specific data.
Skin contact	:	ADVIA® Chemistry Creatinine R1 Reagent	Adverse symptoms may include the following: irritation redness
		ADVIA® Chemistry Creatinine R2 Reagent	No specific data.
Ingestion	:	ADVIA® Chemistry Creatinine R1 Reagent	No specific data.
		ADVIA® Chemistry Creatinine R2 Reagent	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.

Section 6. Accidental release measures

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".

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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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. 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
ADVIA® Chemistry Creatinine R1 Reagent sodium hydroxide	**ACGIH TLV (United States, 6/2013).** C: 2 mg/m³ **NIOSH REL (United States, 10/2013).** CEIL: 2 mg/m³ **OSHA PEL (United States, 2/2013).** TWA: 2 mg/m³ 8 hours. **OSHA PEL 1989 (United States, 3/1989).** CEIL: 2 mg/m³

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

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.

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: chemical splash goggles.

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 : 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 9. Physical and chemical properties

Physical state	:	ADVIA® Chemistry Creatinine R1 Reagent	Liquid.
		ADVIA® Chemistry Creatinine R2 Reagent	Liquid.
Color	:	ADVIA® Chemistry Creatinine R1 Reagent	Colorless.
		ADVIA® Chemistry Creatinine R2 Reagent	Yellow.
Odor	:	ADVIA® Chemistry Creatinine R1 Reagent	Odorless.
		ADVIA® Chemistry Creatinine R2 Reagent	Odorless.
pH	:	ADVIA® Chemistry Creatinine R1 Reagent	13 [Conc. (% w/w): 0.8%]
		ADVIA® Chemistry Creatinine R2 Reagent	Not applicable.
Flash point	:	ADVIA® Chemistry Creatinine R1 Reagent	[Product does not sustain combustion.]
		ADVIA® Chemistry Creatinine R2 Reagent	Not available.
Flammability (solid, gas)	:	ADVIA® Chemistry Creatinine R1 Reagent	Not available.
		ADVIA® Chemistry Creatinine R2 Reagent	Not available.
Relative density	:	ADVIA® Chemistry Creatinine R1 Reagent	Not available.
		ADVIA® Chemistry Creatinine R2 Reagent	1
Solubility in water	:	ADVIA® Chemistry Creatinine R1 Reagent	Not available.
		ADVIA® Chemistry Creatinine R2 Reagent	Not available.
Partition coefficient: n-octanol/water	:	ADVIA® Chemistry Creatinine R1 Reagent	Not available.
		ADVIA® Chemistry Creatinine R2 Reagent	Not available.
Auto-ignition temperature	:	ADVIA® Chemistry Creatinine R1 Reagent	Not available.
		ADVIA® Chemistry Creatinine R2 Reagent	Not available.
Viscosity	:	ADVIA® Chemistry Creatinine R1 Reagent	Not available.
		ADVIA® Chemistry Creatinine R2 Reagent	Not available.

Section 10. Stability and reactivity

Reactivity : ADVIA® Chemistry Creatinine R1 Reagent — No specific test data related to reactivity available for this product or its ingredients.
ADVIA® Chemistry Creatinine R2 Reagent — No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : ADVIA® Chemistry Creatinine R1 Reagent — The product is stable.
ADVIA® Chemistry Creatinine R2 Reagent — The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Conclusion/Summary : ADVIA® Chemistry Creatinine R1 Reagent — Not available.
ADVIA® Chemistry Creatinine R2 Reagent — Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ADVIA® Chemistry Creatinine R1 Reagent					
sodium hydroxide	Eyes - Severe irritant	Monkey	-	24 hours 1 Percent	-
	Eyes - Mild irritant	Rabbit	-	400 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	1 Percent	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 milligrams	-
	Skin - Mild irritant	Human	-	24 hours 2 Percent	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-

Conclusion/Summary

Skin : ADVIA® Chemistry Creatinine R1 Reagent — Not available.
ADVIA® Chemistry Creatinine R2 Reagent — Not available.

Eyes : ADVIA® Chemistry Creatinine R1 Reagent — Not available.
ADVIA® Chemistry Creatinine R2 Reagent — Not available.

Respiratory : ADVIA® Chemistry Creatinine R1 Reagent — Not available.
ADVIA® Chemistry Creatinine R2 Reagent — Not available.

Sensitization

Not available.

Conclusion/Summary

Skin : ADVIA® Chemistry Creatinine R1 Reagent — Not available.
ADVIA® Chemistry Creatinine R2 Reagent — Not available.

Section 11. Toxicological information

Respiratory : ADVIA® Chemistry Creatinine R1 Reagent Not available.
ADVIA® Chemistry Creatinine R2 Reagent Not available.

Mutagenicity

Not available.

Conclusion/Summary : ADVIA® Chemistry Creatinine R1 Reagent Not available.
ADVIA® Chemistry Creatinine R2 Reagent Not available.

Carcinogenicity

Not available.

Conclusion/Summary : ADVIA® Chemistry Creatinine R1 Reagent Not available.
ADVIA® Chemistry Creatinine R2 Reagent Not available.

Reproductive toxicity

Not available.

Conclusion/Summary : ADVIA® Chemistry Creatinine R1 Reagent Not available.
ADVIA® Chemistry Creatinine R2 Reagent Not available.

Teratogenicity

Not available.

Conclusion/Summary : ADVIA® Chemistry Creatinine R1 Reagent Not available.
ADVIA® Chemistry Creatinine R2 Reagent Not available.

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

Eye contact : ADVIA® Chemistry Creatinine R1 Reagent Causes serious eye irritation.
ADVIA® Chemistry Creatinine R2 Reagent No known significant effects or critical hazards.

Inhalation : ADVIA® Chemistry Creatinine R1 Reagent No known significant effects or critical hazards.
ADVIA® Chemistry Creatinine R2 Reagent No known significant effects or critical hazards.

Skin contact : ADVIA® Chemistry Creatinine R1 Reagent Causes skin irritation.
ADVIA® Chemistry Creatinine R2 Reagent No known significant effects or critical hazards.

Ingestion : ADVIA® Chemistry Creatinine R1 Reagent Irritating to mouth, throat and stomach.
ADVIA® Chemistry Creatinine R2 Reagent No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : ADVIA® Chemistry Creatinine R1 Reagent Adverse symptoms may include the following:
pain or irritation
watering
redness
ADVIA® Chemistry Creatinine R2 Reagent No specific data.

Inhalation : ADVIA® Chemistry Creatinine R1 Reagent No specific data.
ADVIA® Chemistry Creatinine R2 Reagent No specific data.

Section 11. Toxicological information

Skin contact	:	ADVIA® Chemistry Creatinine R1 Reagent	Adverse symptoms may include the following: irritation redness
		ADVIA® Chemistry Creatinine R2 Reagent	No specific data.
Ingestion	:	ADVIA® Chemistry Creatinine R1 Reagent	No specific data.
		ADVIA® Chemistry Creatinine R2 Reagent	No specific data.

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

Short term exposure

Potential immediate effects	:	ADVIA® Chemistry Creatinine R1 Reagent	Not available.
		ADVIA® Chemistry Creatinine R2 Reagent	Not available.
Potential delayed effects	:	ADVIA® Chemistry Creatinine R1 Reagent	Not available.
		ADVIA® Chemistry Creatinine R2 Reagent	Not available.

Long term exposure

Potential immediate effects	:	ADVIA® Chemistry Creatinine R1 Reagent	Not available.
		ADVIA® Chemistry Creatinine R2 Reagent	Not available.
Potential delayed effects	:	ADVIA® Chemistry Creatinine R1 Reagent	Not available.
		ADVIA® Chemistry Creatinine R2 Reagent	Not available.

Potential chronic health effects

Not available.

Conclusion/Summary	:	Not available.	ADVIA® Chemistry Creatinine R1 Reagent
		Not available.	ADVIA® Chemistry Creatinine R2 Reagent
General	:	No known significant effects or critical hazards.	
Carcinogenicity	:	No known significant effects or critical hazards.	
Mutagenicity	:	No known significant effects or critical hazards.	
Teratogenicity	:	No known significant effects or critical hazards.	
Developmental effects	:	No known significant effects or critical hazards.	
Fertility effects	:	No known significant effects or critical hazards.	

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Interactive effects	:	ADVIA® Chemistry Creatinine R1 Reagent	Not available.
		ADVIA® Chemistry Creatinine R2 Reagent	Not available.
Other information	:	ADVIA® Chemistry Creatinine R1 Reagent	Not available.
		ADVIA® Chemistry Creatinine R2 Reagent	Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
ADVIA® Chemistry Creatinine R1 Reagent sodium hydroxide	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® Chemistry Creatinine R1 Reagent	Not available.
		ADVIA® Chemistry Creatinine R2 Reagent	Not available.

Persistence and degradability

Section 12. Ecological information

Conclusion/Summary : ADVIA® Chemistry Creatinine R1 Reagent Not available.
ADVIA® Chemistry Creatinine R2 Reagent Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{OC}) : ADVIA® Chemistry Creatinine R1 Reagent Not available.
ADVIA® Chemistry Creatinine R2 Reagent Not available.

Mobility : ADVIA® Chemistry Creatinine R1 Reagent Not available.
ADVIA® Chemistry Creatinine R2 Reagent Not available.

Other adverse effects : No known significant effects or critical hazards.

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® Chemistry Creatinine R1 Reagent	UN1824
	ADVIA® Chemistry Creatinine R2 Reagent	Not regulated.
UN proper shipping name	ADVIA® Chemistry Creatinine R1 Reagent	SODIUM HYDROXIDE, SOLUTION
	ADVIA® Chemistry Creatinine R2 Reagent	-
Transport hazard class(es)	ADVIA® Chemistry Creatinine R1 Reagent	8
	ADVIA® Chemistry Creatinine R2 Reagent	-
Packing group	ADVIA® Chemistry Creatinine R1 Reagent	III
	ADVIA® Chemistry Creatinine R2 Reagent	-
Environmental hazards	ADVIA® Chemistry Creatinine R1 Reagent	No.
	ADVIA® Chemistry Creatinine R2 Reagent	No.
Additional information	ADVIA® Chemistry Creatinine R1 Reagent	-
	ADVIA® Chemistry Creatinine R2 Reagent	-

TDG Classification

UN number	ADVIA® Chemistry Creatinine R1 Reagent	UN1824
	ADVIA® Chemistry Creatinine R2 Reagent	Not regulated.
UN proper shipping name	ADVIA® Chemistry Creatinine R1 Reagent	SODIUM HYDROXIDE, SOLUTION
	ADVIA® Chemistry Creatinine R2 Reagent	-

Section 14. Transport information

Transport hazard class(es)	ADVIA® Chemistry Creatinine R1 Reagent	8
	ADVIA® Chemistry Creatinine R2 Reagent	-



Packing group	ADVIA® Chemistry Creatinine R1 Reagent	III
	ADVIA® Chemistry Creatinine R2 Reagent	-
Environmental hazards	ADVIA® Chemistry Creatinine R1 Reagent	No.
	ADVIA® Chemistry Creatinine R2 Reagent	No.
Additional information	ADVIA® Chemistry Creatinine R1 Reagent	-
	ADVIA® Chemistry Creatinine R2 Reagent	-

Mexico Classification

UN number	ADVIA® Chemistry Creatinine R1 Reagent	UN1824
	ADVIA® Chemistry Creatinine R2 Reagent	Not regulated.
UN proper shipping name	ADVIA® Chemistry Creatinine R1 Reagent	SODIUM HYDROXIDE, SOLUTION
	ADVIA® Chemistry Creatinine R2 Reagent	-
Transport hazard class(es)	ADVIA® Chemistry Creatinine R1 Reagent	8
	ADVIA® Chemistry Creatinine R2 Reagent	-



Packing group	ADVIA® Chemistry Creatinine R1 Reagent	III
	ADVIA® Chemistry Creatinine R2 Reagent	-
Environmental hazards	ADVIA® Chemistry Creatinine R1 Reagent	No.
	ADVIA® Chemistry Creatinine R2 Reagent	No.
Additional information	ADVIA® Chemistry Creatinine R1 Reagent	-
	ADVIA® Chemistry Creatinine R2 Reagent	-

ADR/RID

UN number	ADVIA® Chemistry Creatinine R1 Reagent	UN1824
	ADVIA® Chemistry Creatinine R2 Reagent	Not regulated.
UN proper shipping name	ADVIA® Chemistry Creatinine R1 Reagent	SODIUM HYDROXIDE, SOLUTION
	ADVIA® Chemistry Creatinine R2 Reagent	-
Transport hazard class(es)	ADVIA® Chemistry Creatinine R1 Reagent	8
	ADVIA® Chemistry Creatinine R2 Reagent	-



Packing group	ADVIA® Chemistry Creatinine R1 Reagent	III
	ADVIA® Chemistry Creatinine R2 Reagent	-
Environmental hazards	ADVIA® Chemistry Creatinine R1 Reagent	No.
	ADVIA® Chemistry Creatinine R2 Reagent	No.
Additional information	ADVIA® Chemistry Creatinine R1 Reagent	-
	ADVIA® Chemistry Creatinine R2 Reagent	-

IMDG

UN number	ADVIA® Chemistry Creatinine R1 Reagent	UN1824
	ADVIA® Chemistry Creatinine R2 Reagent	Not regulated.

Section 14. Transport information

UN proper shipping name	ADVIA® Chemistry Creatinine R1 Reagent	SODIUM HYDROXIDE, SOLUTION
	ADVIA® Chemistry Creatinine R2 Reagent	-
Transport hazard class(es)	ADVIA® Chemistry Creatinine R1 Reagent	8
	ADVIA® Chemistry Creatinine R2 Reagent	-



Packing group	ADVIA® Chemistry Creatinine R1 Reagent	III
	ADVIA® Chemistry Creatinine R2 Reagent	-
Environmental hazards	ADVIA® Chemistry Creatinine R1 Reagent	No.
	ADVIA® Chemistry Creatinine R2 Reagent	No.
Additional information	ADVIA® Chemistry Creatinine R1 Reagent	-
	ADVIA® Chemistry Creatinine R2 Reagent	-

IATA

UN number	ADVIA® Chemistry Creatinine R1 Reagent	UN1824
	ADVIA® Chemistry Creatinine R2 Reagent	Not regulated.
UN proper shipping name	ADVIA® Chemistry Creatinine R1 Reagent	SODIUM HYDROXIDE, SOLUTION
	ADVIA® Chemistry Creatinine R2 Reagent	-
Transport hazard class(es)	ADVIA® Chemistry Creatinine R1 Reagent	8
	ADVIA® Chemistry Creatinine R2 Reagent	-



Packing group	ADVIA® Chemistry Creatinine R1 Reagent	III
	ADVIA® Chemistry Creatinine R2 Reagent	-
Environmental hazards	ADVIA® Chemistry Creatinine R1 Reagent	No.
	ADVIA® Chemistry Creatinine R2 Reagent	No.
Additional information	ADVIA® Chemistry Creatinine R1 Reagent	-
	ADVIA® Chemistry Creatinine R2 Reagent	-

Special precautions for user :	ADVIA® Chemistry Creatinine R1 Reagent	**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® Chemistry Creatinine R2 Reagent	**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 Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

United States inventory (TSCA 8b): Not determined.

Clean Water Act (CWA) 307: 2,4,6-trinitrophenol

Clean Water Act (CWA) 311: sodium hydroxide; 2,4,6-trinitrophenol

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
ADVIA® Chemistry Creatinine R1 Reagent sodium hydroxide	0.8	No.	No.	No.	Yes.	No.

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.

International regulations

Chemical Weapons Convention List Schedule I Chemicals : ADVIA® Chemistry Creatinine R1 Reagent Not listed
ADVIA® Chemistry Creatinine R2 Reagent Not listed

Chemical Weapons Convention List Schedule II Chemicals : ADVIA® Chemistry Creatinine R1 Reagent Not listed
ADVIA® Chemistry Creatinine R2 Reagent Not listed

Chemical Weapons Convention List Schedule III Chemicals : ADVIA® Chemistry Creatinine R1 Reagent Not listed
ADVIA® Chemistry Creatinine R2 Reagent Not listed

Section 16. Other information

History

Date of issue/Date of revision : 1/22/2016.

Version : 1.04

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 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

Allergen : **Not available.**