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

SAFETY DATA SHEET

SIEMENS

CRP_2 Reagents

MSDS no. 06522059

Section 1. Identification

GHS product identifier : CRP_2 Reagents

Product code : 06522059, 10283129

Other means of identification : CRP_2 Reagent 1 — 06522059-R1
CRP_2 Reagent 2 — 06522059-R2

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 :
CRP_2 Reagent 1 — This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
CRP_2 Reagent 2 — This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture :
CRP_2 Reagent 1 — Not classified.
CRP_2 Reagent 2 — Not classified.

Potentially biohazardous material.

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

GHS label elements

Signal word :
CRP_2 Reagent 1 — No signal word.
CRP_2 Reagent 2 — No signal word.

Hazard statements :
CRP_2 Reagent 1 — No known significant effects or critical hazards.
CRP_2 Reagent 2 — No known significant effects or critical hazards.

Precautionary statements

Prevention :
CRP_2 Reagent 1 — Not applicable.
CRP_2 Reagent 2 — Not applicable.

Response :
CRP_2 Reagent 1 — Not applicable.
CRP_2 Reagent 2 — Not applicable.

Storage :
CRP_2 Reagent 1 — Not applicable.
CRP_2 Reagent 2 — Not applicable.

Disposal :
CRP_2 Reagent 1 — Not applicable.
CRP_2 Reagent 2 — Not applicable.

Supplemental label elements :
CRP_2 Reagent 1 — None known.
CRP_2 Reagent 2 — None known.

Section 2. Hazards identification

Hazards not otherwise classified	:	CRP_2 Reagent 1	None known.
		CRP_2 Reagent 2	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	CRP_2 Reagent 1	Mixture
		CRP_2 Reagent 2	Mixture

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

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

Eye contact	:	CRP_2 Reagent 1	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.
		CRP_2 Reagent 2	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	:	CRP_2 Reagent 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		CRP_2 Reagent 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	CRP_2 Reagent 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		CRP_2 Reagent 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	CRP_2 Reagent 1	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.
		CRP_2 Reagent 2	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

Section 4. First aid measures

symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	CRP_2 Reagent 1	No known significant effects or critical hazards.
		CRP_2 Reagent 2	No known significant effects or critical hazards.
Inhalation	:	CRP_2 Reagent 1	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
		CRP_2 Reagent 2	No known significant effects or critical hazards.
Skin contact	:	CRP_2 Reagent 1	No known significant effects or critical hazards.
		CRP_2 Reagent 2	No known significant effects or critical hazards.
Ingestion	:	CRP_2 Reagent 1	No known significant effects or critical hazards.
		CRP_2 Reagent 2	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	CRP_2 Reagent 1	No specific data.
		CRP_2 Reagent 2	No specific data.
Inhalation	:	CRP_2 Reagent 1	No specific data.
		CRP_2 Reagent 2	No specific data.
Skin contact	:	CRP_2 Reagent 1	No specific data.
		CRP_2 Reagent 2	No specific data.
Ingestion	:	CRP_2 Reagent 1	No specific data.
		CRP_2 Reagent 2	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.

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.

Section 5. Fire-fighting measures

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. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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. 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. 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).

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

None.

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: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Physical state	: CRP_2 Reagent 1	Liquid.
	CRP_2 Reagent 2	Liquid.
Color	: CRP_2 Reagent 1	Colorless.
	CRP_2 Reagent 2	Off-white.
Odor	: CRP_2 Reagent 1	Odorless.
	CRP_2 Reagent 2	Odorless.
pH	: CRP_2 Reagent 1	7
	CRP_2 Reagent 2	7.3
Flash point	: CRP_2 Reagent 1	Not available.
	CRP_2 Reagent 2	Not available.
Flammability (solid, gas)	: CRP_2 Reagent 1	Not available.
	CRP_2 Reagent 2	Not available.
Relative density	: CRP_2 Reagent 1	Not available.
	CRP_2 Reagent 2	Not available.
Solubility in water	: CRP_2 Reagent 1	Not available.
	CRP_2 Reagent 2	Not available.
Partition coefficient: n-octanol/water	: CRP_2 Reagent 1	Not available.
	CRP_2 Reagent 2	Not available.
Auto-ignition temperature	: CRP_2 Reagent 1	Not available.
	CRP_2 Reagent 2	Not available.
Viscosity	: CRP_2 Reagent 1	Not available.
	CRP_2 Reagent 2	Not available.

Section 10. Stability and reactivity

Reactivity : CRP_2 Reagent 1 — No specific test data related to reactivity available for this product or its ingredients.
CRP_2 Reagent 2 — No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : CRP_2 Reagent 1 — The product is stable.
CRP_2 Reagent 2 — 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 : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — Not available.

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — Not available.

Eyes : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — Not available.

Respiratory : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — Not available.

Sensitization

Not available.

Conclusion/Summary

Skin : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — Not available.

Respiratory : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — Not available.

Mutagenicity

Not available.

Conclusion/Summary : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — Not available.

Carcinogenicity

Not available.

Conclusion/Summary : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — Not available.

Reproductive toxicity

Not available.

Section 11. Toxicological information

Conclusion/Summary	:	CRP_2 Reagent 1	Not available.
		CRP_2 Reagent 2	Not available.

Teratogenicity

Not available.

Conclusion/Summary	:	CRP_2 Reagent 1	Not available.
		CRP_2 Reagent 2	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	:	CRP_2 Reagent 1	No known significant effects or critical hazards.
		CRP_2 Reagent 2	No known significant effects or critical hazards.
Inhalation	:	CRP_2 Reagent 1	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
		CRP_2 Reagent 2	No known significant effects or critical hazards.
Skin contact	:	CRP_2 Reagent 1	No known significant effects or critical hazards.
		CRP_2 Reagent 2	No known significant effects or critical hazards.
Ingestion	:	CRP_2 Reagent 1	No known significant effects or critical hazards.
		CRP_2 Reagent 2	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	CRP_2 Reagent 1	No specific data.
		CRP_2 Reagent 2	No specific data.
Inhalation	:	CRP_2 Reagent 1	No specific data.
		CRP_2 Reagent 2	No specific data.
Skin contact	:	CRP_2 Reagent 1	No specific data.
		CRP_2 Reagent 2	No specific data.
Ingestion	:	CRP_2 Reagent 1	No specific data.
		CRP_2 Reagent 2	No specific data.

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

Short term exposure

Potential immediate effects	:	CRP_2 Reagent 1	Not available.
		CRP_2 Reagent 2	Not available.
Potential delayed effects	:	CRP_2 Reagent 1	Not available.
		CRP_2 Reagent 2	Not available.

Long term exposure

Potential immediate effects	:	CRP_2 Reagent 1	Not available.
		CRP_2 Reagent 2	Not available.

Section 11. Toxicological information

Potential delayed effects : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available. — CRP_2 Reagent 1
Not available. — CRP_2 Reagent 2

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 : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — Not available.

Other information : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — Not available.

Section 12. Ecological information

Toxicity

Not available.

Conclusion/Summary : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — Not available.

Persistence and degradability

Conclusion/Summary : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{OC}) : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — Not available.

Mobility : CRP_2 Reagent 1 — Not available.
CRP_2 Reagent 2 — 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

Section 13. Disposal considerations

when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

Section 14. Transport information

DOT Classification

UN number	CRP_2 Reagent 1	Not regulated.
	CRP_2 Reagent 2	Not regulated.
UN proper shipping name	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-
Transport hazard class(es)	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-
Packing group	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-
Environmental hazards	CRP_2 Reagent 1	No.
	CRP_2 Reagent 2	No.
Additional information	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-

TDG Classification

UN number	CRP_2 Reagent 1	Not regulated.
	CRP_2 Reagent 2	Not regulated.
UN proper shipping name	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-
Transport hazard class(es)	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-
Packing group	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-
Environmental hazards	CRP_2 Reagent 1	No.
	CRP_2 Reagent 2	No.
Additional information	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-

Mexico Classification

UN number	CRP_2 Reagent 1	Not regulated.
	CRP_2 Reagent 2	Not regulated.
UN proper shipping name	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-
Transport hazard class(es)	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-

Section 14. Transport information

Packing group	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-
Environmental hazards	CRP_2 Reagent 1	No.
	CRP_2 Reagent 2	No.
Additional information	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-

ADR/RID

UN number	CRP_2 Reagent 1	Not regulated.
	CRP_2 Reagent 2	Not regulated.
UN proper shipping name	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-
Transport hazard class(es)	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-

Packing group	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-
Environmental hazards	CRP_2 Reagent 1	No.
	CRP_2 Reagent 2	No.
Additional information	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-

IMDG

UN number	CRP_2 Reagent 1	Not regulated.
	CRP_2 Reagent 2	Not regulated.
UN proper shipping name	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-
Transport hazard class(es)	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-

Packing group	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-
Environmental hazards	CRP_2 Reagent 1	No.
	CRP_2 Reagent 2	No.
Additional information	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-

IATA

UN number	CRP_2 Reagent 1	Not regulated.
	CRP_2 Reagent 2	Not regulated.
UN proper shipping name	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-

Section 14. Transport information

Transport hazard class(es)	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-
Packing group	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-
Environmental hazards	CRP_2 Reagent 1	No.
	CRP_2 Reagent 2	No.
Additional information	CRP_2 Reagent 1	-
	CRP_2 Reagent 2	-

Special precautions for user : CRP_2 Reagent 1

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.

CRP_2 Reagent 2

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 4(a) proposed test rules**: glycine

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

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

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

Name	%	EHS	SARA 302 TPQ (lbs)	SARA 302 TPQ (gallons)	SARA 304 RQ (lbs)	SARA 304 RQ (gallons)
CRP_2 Reagent 1 sodium azide	0.09	Yes.	500	-	1000	-
CRP_2 Reagent 2 sodium azide	0.09	Yes.	500	-	1000	-

Section 15. Regulatory information

SARA 304 RQ : 1111111.1 lbs / 504444.4 kg

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

No products were found.

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	:	CRP_2 Reagent 1 CRP_2 Reagent 2	Not listed Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	CRP_2 Reagent 1 CRP_2 Reagent 2	Not listed Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	CRP_2 Reagent 1 CRP_2 Reagent 2	Not listed 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.**