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

# SAFETY DATA SHEET

Concentrated Calcium_2 Reagent

SIEMENS

**MSDS no.** 06860493

## Section 1. Identification

**GHS product identifier** : Concentrated Calcium_2 Reagent

**Product code** : 06860493, 10283344

**Other means of identification** : Calcium_2 Reagent 1 — 06860493-1

**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** : Calcium_2 Reagent 1 — This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : Calcium_2 Reagent 1 — Not classified.

**GHS label elements**

**Signal word** : Calcium_2 Reagent 1 — No signal word.

**Hazard statements** : Calcium_2 Reagent 1 — No known significant effects or critical hazards.

**Precautionary statements**

**Prevention** : Calcium_2 Reagent 1 — Not applicable.

**Response** : Calcium_2 Reagent 1 — Not applicable.

**Storage** : Calcium_2 Reagent 1 — Not applicable.

**Disposal** : Calcium_2 Reagent 1 — Not applicable.

**Supplemental label elements** : Calcium_2 Reagent 1 — None known.

**Hazards not otherwise classified** : Calcium_2 Reagent 1 — None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Calcium_2 Reagent 1 — 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** | : | Calcium_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. |
| **Inhalation** | : | Calcium_2 Reagent 1 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| **Skin contact** | : | Calcium_2 Reagent 1 | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| **Ingestion** | : | Calcium_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. |

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

| | | | |
|---|---|---|---|
| **Eye contact** | : | Calcium_2 Reagent 1 | No known significant effects or critical hazards. |
| **Inhalation** | : | Calcium_2 Reagent 1 | No known significant effects or critical hazards. |
| **Skin contact** | : | Calcium_2 Reagent 1 | No known significant effects or critical hazards. |
| **Ingestion** | : | Calcium_2 Reagent 1 | No known significant effects or critical hazards. |

### Over-exposure signs/symptoms

| | | | |
|---|---|---|---|
| **Eye contact** | : | Calcium_2 Reagent 1 | No specific data. |
| **Inhalation** | : | Calcium_2 Reagent 1 | No specific data. |
| **Skin contact** | : | Calcium_2 Reagent 1 | No specific data. |
| **Ingestion** | : | Calcium_2 Reagent 1 | 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. |

## Section 5. Fire-fighting measures

**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** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

**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. 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.

**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** | : | Calcium_2 Reagent 1 | Liquid. |
| **Color** | : | Calcium_2 Reagent 1 | Purple. Red. |
| **Odor** | : | Calcium_2 Reagent 1 | Odorless. |
| **pH** | : | Calcium_2 Reagent 1 | 5.9 |
| **Flash point** | : | Calcium_2 Reagent 1 | Not available. |
| **Flammability (solid, gas)** | : | Calcium_2 Reagent 1 | Not available. |
| **Relative density** | : | Calcium_2 Reagent 1 | Not available. |
| **Solubility in water** | : | Calcium_2 Reagent 1 | Not available. |
| **Partition coefficient: n-octanol/water** | : | Calcium_2 Reagent 1 | Not available. |
| **Auto-ignition temperature** | : | Calcium_2 Reagent 1 | Not available. |
| **Viscosity** | : | Calcium_2 Reagent 1 | Not available. |

## Section 10. Stability and reactivity

**Reactivity** : Calcium_2 Reagent 1 — No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : Calcium_2 Reagent 1 — 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** : Calcium_2 Reagent 1 — Not available.

**Irritation/Corrosion**

Not available.

**Conclusion/Summary**

**Skin** : Calcium_2 Reagent 1 — Not available.

**Eyes** : Calcium_2 Reagent 1 — Not available.

**Respiratory** : Calcium_2 Reagent 1 — Not available.

**Sensitization**

Not available.

**Conclusion/Summary**

**Skin** : Calcium_2 Reagent 1 — Not available.

**Respiratory** : Calcium_2 Reagent 1 — Not available.

**Mutagenicity**

Not available.

**Conclusion/Summary** : Calcium_2 Reagent 1 — Not available.

**Carcinogenicity**

Not available.

**Conclusion/Summary** : Calcium_2 Reagent 1 — Not available.

**Reproductive toxicity**

Not available.

**Conclusion/Summary** : Calcium_2 Reagent 1 — Not available.

**Teratogenicity**

Not available.

**Conclusion/Summary** : Calcium_2 Reagent 1 — Not available.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

# Section 11. Toxicological information

## Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

## Potential acute health effects

| | | | |
|---|---|---|---|
| **Eye contact** | : | Calcium_2 Reagent 1 | No known significant effects or critical hazards. |
| **Inhalation** | : | Calcium_2 Reagent 1 | No known significant effects or critical hazards. |
| **Skin contact** | : | Calcium_2 Reagent 1 | No known significant effects or critical hazards. |
| **Ingestion** | : | Calcium_2 Reagent 1 | No known significant effects or critical hazards. |

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

| | | | |
|---|---|---|---|
| **Eye contact** | : | Calcium_2 Reagent 1 | No specific data. |
| **Inhalation** | : | Calcium_2 Reagent 1 | No specific data. |
| **Skin contact** | : | Calcium_2 Reagent 1 | No specific data. |
| **Ingestion** | : | Calcium_2 Reagent 1 | No specific data. |

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

### Short term exposure

| | | | |
|---|---|---|---|
| **Potential immediate effects** | : | Calcium_2 Reagent 1 | Not available. |
| **Potential delayed effects** | : | Calcium_2 Reagent 1 | Not available. |

### Long term exposure

| | | | |
|---|---|---|---|
| **Potential immediate effects** | : | Calcium_2 Reagent 1 | Not available. |
| **Potential delayed effects** | : | Calcium_2 Reagent 1 | Not available. |

### Potential chronic health effects

Not available.

| | | | |
|---|---|---|---|
| **Conclusion/Summary** | : | Not available. | Calcium_2 Reagent 1 |
| **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** | : | Calcium_2 Reagent 1 | Not available. |
| **Other information** | : | Calcium_2 Reagent 1 | Not available. |

# Section 12. Ecological information

## Toxicity

Not available.

| | | | |
|---|---|---|---|
| **Conclusion/Summary** | : | Calcium_2 Reagent 1 | Not available. |

## Persistence and degradability

| | | | |
|---|---|---|---|
| **Conclusion/Summary** | : | Calcium_2 Reagent 1 | Not available. |

## Bioaccumulative potential

Not available.

## Mobility in soil

| | | | |
|---|---|---|---|
| **Soil/water partition coefficient ($K_{OC}$)** | : | Calcium_2 Reagent 1 | Not available. |
| **Mobility** | : | Calcium_2 Reagent 1 | 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. 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** | Calcium_2 Reagent 1 | Not regulated. |
| **UN proper shipping name** | Calcium_2 Reagent 1 | - |
| **Transport hazard class(es)** | Calcium_2 Reagent 1 | - |
| **Packing group** | Calcium_2 Reagent 1 | - |
| **Environmental hazards** | Calcium_2 Reagent 1 | No. |
| **Additional information** | Calcium_2 Reagent 1 | - |

## TDG Classification

| | | |
|---|---|---|
| **UN number** | Calcium_2 Reagent 1 | Not regulated. |
| **UN proper shipping name** | Calcium_2 Reagent 1 | - |

# Section 14. Transport information

| | | |
|---|---|---|
| **Transport hazard class(es)** | Calcium_2 Reagent 1 | - |
| **Packing group** | Calcium_2 Reagent 1 | - |
| **Environmental hazards** | Calcium_2 Reagent 1 | No. |
| **Additional information** | Calcium_2 Reagent 1 | - |

## Mexico Classification

| | | |
|---|---|---|
| **UN number** | Calcium_2 Reagent 1 | Not regulated. |
| **UN proper shipping name** | Calcium_2 Reagent 1 | - |
| **Transport hazard class(es)** | Calcium_2 Reagent 1 | - |
| **Packing group** | Calcium_2 Reagent 1 | - |
| **Environmental hazards** | Calcium_2 Reagent 1 | No. |
| **Additional information** | Calcium_2 Reagent 1 | - |

## ADR/RID

| | | |
|---|---|---|
| **UN number** | Calcium_2 Reagent 1 | Not regulated. |
| **UN proper shipping name** | Calcium_2 Reagent 1 | - |
| **Transport hazard class(es)** | Calcium_2 Reagent 1 | - |
| **Packing group** | Calcium_2 Reagent 1 | - |
| **Environmental hazards** | Calcium_2 Reagent 1 | No. |
| **Additional information** | Calcium_2 Reagent 1 | - |

## IMDG

| | | |
|---|---|---|
| **UN number** | Calcium_2 Reagent 1 | Not regulated. |
| **UN proper shipping name** | Calcium_2 Reagent 1 | - |
| **Transport hazard class(es)** | Calcium_2 Reagent 1 | - |

## Section 14. Transport information

| | | |
|---|---|---|
| **Packing group** | Calcium_2 Reagent 1 | - |
| **Environmental hazards** | Calcium_2 Reagent 1 | No. |
| **Additional information** | Calcium_2 Reagent 1 | - |

### IATA

| | | |
|---|---|---|
| **UN number** | Calcium_2 Reagent 1 | Not regulated. |
| **UN proper shipping name** | Calcium_2 Reagent 1 | - |
| **Transport hazard class(es)** | Calcium_2 Reagent 1 | - |
| **Packing group** | Calcium_2 Reagent 1 | - |
| **Environmental hazards** | Calcium_2 Reagent 1 | No. |
| **Additional information** | Calcium_2 Reagent 1 | - |

**Special precautions for user** : Calcium_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.

**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**: 2,7-(bis(2-arsonophenylazo))-1,8-dihydroxynaphthalene-3, 6-disulphonic acid

**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**

# Section 15. Regulatory information

No products were found.

**SARA 304 RQ** : Not applicable.

**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** | : Calcium_2 Reagent 1 | Not listed |
| **Chemical Weapons Convention List Schedule II Chemicals** | : Calcium_2 Reagent 1 | Not listed |
| **Chemical Weapons Convention List Schedule III Chemicals** | : Calcium_2 Reagent 1 | 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.**