SAFETY DATA SHEET

Healthineers Emit® 2000 Carbamazepine Assay

> SDS#: SY4F019

Section 1. Identification

Product identifier : Emit® 2000 Carbamazepine Assay

Product type : Liquid.

Product code : 4F019UL, OSR4F229, 10445309, 10445311, 10462021, 01181392

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

Identified uses Diagnostic agents.

Restrictions on use For professional users only.

Manufactured/supplied : Siemens Healthcare Diagnostics Inc.

511 Benedict Avenue

Tarrytown, NY 10591-5097 USA

1-877-229-3711

In case of emergency : (800) 424-9300 (CHEMTREC)

Section 2. Hazard identification

Classification of the substance or mixture : Not classified.

GHS label elements

Response

Signal word : Carbamazepine Reagent 1 No signal word.

Carbamazepine Reagent 2 No signal word.

Hazard statements : Carbamazepine Reagent 1 No known significant effects or critical

hazards.

No known significant effects or critical Carbamazepine Reagent 2

hazards.

Precautionary statements

Prevention Carbamazepine Reagent 1 Not applicable.

Carbamazepine Reagent 2 Not applicable. **⊘**arbamazepine Reagent 1 Not applicable.

Carbamazepine Reagent 2 Not applicable. : Carbamazepine Reagent 1 Not applicable. Storage

Carbamazepine Reagent 2 Not applicable. : Carbamazepine Reagent 1 Not applicable. **Disposal**

Carbamazepine Reagent 2 Not applicable. Supplemental label : Carbamazepine Reagent 1 None known. elements Carbamazepine Reagent 2 None known.

Hazards not otherwise €arbamazepine Reagent 1 None known. classified Carbamazepine Reagent 2 None known.

Additional information : Not available.

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

Section 3. Composition/information on ingredients

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

Occupational exposure limits, if available, are listed in Section 8.

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Section 4. First-aid measures

Description of necessary first aid measures

Eye contact : Carbamazepine 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.

Carbamazepine 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 : **⊘**arbamazepine 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.

Carbamazepine Reagent 2 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.

Skin contact : Zarbamazepine Reagent 1 Flush contaminated skin with plenty of

water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Carbamazepine Reagent 2 Flush contaminated skin with plenty of

water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Ingestion : **⊘**arbamazepine Reagent 1 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.

Carbamazepine Reagent 2 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 : Carbamazepine Reagent 1 No known significant effects or critical

hazards.

Carbamazepine Reagent 2 No known significant effects or critical

hazards.

Inhalation :

✓ arbamazepine Reagent 1 No known significant effects or critical

hazards.

Carbamazepine Reagent 2 No known significant effects or critical

hazards.

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Section 4. First-aid measures

Skin contact : Carbamazepine Reagent 1 No known significant effects or critical

No known significant effects or critical Carbamazepine Reagent 2

hazards.

Ingestion : Carbamazepine Reagent 1 No known significant effects or critical

hazards.

Carbamazepine Reagent 2 No known significant effects or critical

hazards.

Over-exposure signs/symptoms

Eye contact : Carbamazepine Reagent 1 No specific data.

Carbamazepine Reagent 2 No specific data.

Inhalation : Carbamazepine Reagent 1 No specific data. Carbamazepine Reagent 2 No specific data.

Skin contact : Carbamazepine Reagent 1 No specific data. Carbamazepine Reagent 2 No specific data.

Ingestion Carbamazepine Reagent 1 No specific data.

Carbamazepine 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

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

: In a fire or if heated, a pressure increase will occur and the container may burst.

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

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 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".

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Section 6. Accidental release measures

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. See Section 10 for incompatible materials before handling or use.

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 sideshields.

Skin protection

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Section 8. Exposure controls/personal 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 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

Appearance

Color

Hq

Physical state Carbamazepine Reagent 1 Liquid.

Carbamazepine Reagent 2 Liquid. Carbamazepine Reagent 1 Clear.

Carbamazepine Reagent 2 Clear. Odor

€arbamazepine Reagent 1 Odorless. Carbamazepine Reagent 2 Odorless

Odor threshold ©arbamazepine Reagent 1 Not available. Carbamazepine Reagent 2 Not available.

> : Carbamazepine Reagent 1 5.5 7.5

Carbamazepine Reagent 2 **Melting point** : Carbamazepine Reagent 1 Not available.

Carbamazepine Reagent 2 Not available.

Boiling point : Carbamazepine Reagent 1 Not relevant/applicable due to nature of

the product.

Carbamazepine Reagent 2 Not relevant/applicable due to nature of

the product.

Flash point : Carbamazepine Reagent 1 [Product does not sustain combustion.]

Carbamazepine Reagent 2 [Product does not sustain combustion.] : Carbamazepine Reagent 1 Not relevant/applicable due to nature of

Fire point the product.

> Carbamazepine Reagent 2 Not relevant/applicable due to nature of

the product.

Burning time : Carbamazepine Reagent 1 Not applicable. Carbamazepine Reagent 2 Not applicable.

: Carbamazepine Reagent 1 **Burning rate** Not applicable. Carbamazepine Reagent 2 Not applicable.

: Carbamazepine Reagent 1 Not available. **Evaporation rate** Carbamazepine Reagent 2 Not available.

: Carbamazepine Reagent 1

Carbamazepine Reagent 2

Flammability (solid, gas) : Carbamazepine Reagent 1 Not relevant/applicable due to nature of

the product.

Carbamazepine Reagent 2 Not relevant/applicable due to nature of

the product.

Not relevant/applicable due to nature of

(flammable) limits Carbamazepine Reagent 2

Lower and upper explosive

Vapor pressure

the product.

Not relevant/applicable due to nature of the product.

> Not available.

Vapor density : Carbamazepine Reagent 1 Not relevant/applicable due to nature of

the product.

Carbamazepine Reagent 2 Not relevant/applicable due to nature of

the product.

Not available.

Relative density Not available.

Carbamazepine Reagent 2 Not available.

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Section 9. Physical and chemical properties

Solubility(ies)

Not available.

Solubility in water : Zarbamazepine Reagent 1 Not available.
Carbamazepine Reagent 2 Not available.

Partition coefficient: n- : Carbamazepine Reagent 1 Not relevant/applicable due to nature of

octanol/water the product.

Carbamazepine Reagent 2 Not relevant/applicable due to nature of

the product.

Decomposition temperature : Carbamazepine Reagent 1 Not available.

Carbamazepine Reagent 2 Not available.

the product.

Carbamazepine Reagent 2 Not relevant/applicable due to nature of

the product.

Section 10. Stability and reactivity

Reactivity : ☑arbamazepine Reagent 1 No specific test data related to reactivity

available for this product or its

ingredients.

Carbamazepine Reagent 2 No specific test data related to reactivity

available for this product or its

ingredients.

Chemical stability: Carbamazepine Reagent 1 The product is stable.

Carbamazepine Reagent 2 The product is stable.

Possibility of hazardous

reactions

: Carbamazepine Reagent 1

Carbamazepine Reagent 2

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

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

Conditions to avoid : Carbamazepine Reagent 1 No specific data.

Carbamazepine Reagent 2 No specific data.

Incompatible materials : Varbamazepine Reagent 1 No specific data.

Carbamazepine Reagent 2 No specific data.

Hazardous decomposition :

products

: Carbamazepine Reagent 1

Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Carbamazepine Reagent 2 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 : **⊘**arbamazepine Reagent 1

☑arbamazepine Reagent 1 Not available.
Carbamazepine Reagent 2 Not available.

Irritation/Corrosion

Not available.

Conclusion/Summary

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Section 11. Toxicological information

Carbamazepine Reagent 1 Skin Not available.

Carbamazepine Reagent 2 Not available. Carbamazepine Reagent 1 Not available. Carbamazepine Reagent 2 Not available.

©arbamazepine Reagent 1 Not available. Respiratory Carbamazepine Reagent 2 Not available.

Sensitization

Eyes

Not available.

Conclusion/Summary

Skin : Carbamazepine Reagent 1 Not available. Carbamazepine Reagent 2 Not available.

Respiratory Not available. Carbamazepine Reagent 2 Not available.

Mutagenicity

Not available.

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

Carcinogenicity

Not available.

Conclusion/Summary : Carbamazepine Reagent 1 Not available.

Carbamazepine Reagent 2 Not available.

Reproductive toxicity

Not available.

Conclusion/Summary : Carbamazepine Reagent 1 Not available. Not available.

Carbamazepine Reagent 2

Teratogenicity Not available.

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

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Not available Information on the likely : Carbamazepine Reagent 1 Carbamazepine Reagent 2 Not available. routes of exposure

Potential acute health effects

: Carbamazepine Reagent 1 No known significant effects or critical Eye contact

hazards.

Carbamazepine Reagent 2 No known significant effects or critical

hazards.

Inhalation : Carbamazepine Reagent 1 No known significant effects or critical

hazards.

Carbamazepine Reagent 2 No known significant effects or critical

hazards.

Skin contact : Carbamazepine Reagent 1 No known significant effects or critical

hazards.

Carbamazepine Reagent 2 No known significant effects or critical

hazards.

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Section 11. Toxicological information

Ingestion : Carbamazepine Reagent 1 No known significant effects or critical

hazards.

Carbamazepine Reagent 2 No known significant effects or critical

hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Carbamazepine Reagent 1 No specific data.

Carbamazepine Reagent 2 No specific data.

Carbamazepine Reagent 2 No specific data.

: Zarbamazepine Reagent 1 No specific data.

Carbamazepine Reagent 2 No specific data.

No specific data.

Ingestion : **⊘**arbamazepine Reagent 1 No specific data.

Carbamazepine Reagent 2 No specific data.

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

Short term exposure

Skin contact

Potential immediate: Øarbamazepine Reagent 1Not available.effectsCarbamazepine Reagent 2Not available.

Potential delayed effects : Carbamazepine Reagent 1 Not available.

Carbamazepine Reagent 2 Not available.

Long term exposure

Potential immediate : Zarbamazepine Reagent 1 Not available.

effects
Carbamazepine Reagent 2
Not available.

Potential delayed effects
Carbamazepine Reagent 1
Carbamazepine Reagent 2
Not available.
Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : ✓arbamazepine Reagent 1 Not available.

Carbamazepine Reagent 2 Not available.

General : ☑arbamazepine Reagent 1 No known significant effects or critical

hazards.

Carbamazepine Reagent 2 No known significant effects or critical

hazards.

Carcinogenicity : ☑arbamazepine Reagent 1 No known significant effects or critical

hazards.

Carbamazepine Reagent 2 No known significant effects or critical

hazards.

Mutagenicity : ☑ arbamazepine Reagent 1 No known significant effects or critical

hazards.

Carbamazepine Reagent 2 No known significant effects or critical

hazards.

Reproductive toxicity: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

 Other information
 : Carbamazepine Reagent 1
 Not available.

Carbamazepine Reagent 2 Not available.

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Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Conclusion/Summary : Zarbamazepine Reagent 1 Not available.
Carbamazepine Reagent 2 Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc) Mobility Carbamazepine Reagent 1 Not available.
 Carbamazepine Reagent 2 Not available.
 Carbamazepine Reagent 1 Not available.
 Carbamazepine 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 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

IATA

hazard class(es) Carbamazepine Reagent 2 -

Carbamazepine Reagent 2
Environmental Zarbamazepine Reagent 1 No.
hazards Carbamazepine Reagent 2 No.

Additional Zarbamazapine Reagent 1

Additional Carbamazepine Reagent 1 information Carbamazepine Reagent 2 -

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Section 14. Transport information

Special precautions for user : Carbamazepine 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.

Carbamazepine 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.

Section 15. Regulatory information

Canadian lists

Canadian NPRI : Carbamazepine Reagent 1

Carbamazepine Reagent 2

CEPA Toxic substances : Carbamazepine Reagent 1

Carbamazepine Reagent 2

Canada inventory : Carbamazepine Reagent 1
Carbamazepine Reagent 2

None of the components are listed. None of the components are listed. None of the components are listed.

None of the components are listed.

Not determined.

Section 16. Other information

History

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revision

Key to abbreviations

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Version : 1.04

: 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

HPR = Hazardous Products Regulations N/A = Not available SGG = Segregation

Group

Procedure used to derive the classification

| Classification | Justification |
|-----------------|---------------|
| Not classified. | |

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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