

SAFETY DATA SHEET

SIEMENS

Emit 2000 Phenobarbital Assay

**MSDS
no.**

SY4D019

Section 1. Identification

GHS product identifier : Emit 2000 Phenobarbital Assay

Product code : 4D019, 5D019, OSR4D229, 00277884, 10462020

Other means of identification : Emit® 2000 Phenobarbital Assay, Reagent 4D019, 5D019, OSR4D229
1
Emit® 2000 Phenobarbital Assay, Reagent 4D019, 5D019, OSR4D229
2

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 : Emit® 2000 Phenobarbital Assay, Reagent 1 This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emit® 2000 Phenobarbital Assay, Reagent 2 This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : Emit® 2000 Phenobarbital Assay, Reagent 1 Not classified.
Emit® 2000 Phenobarbital Assay, Reagent 2 Not classified.

GHS label elements

Signal word : Emit® 2000 Phenobarbital Assay, Reagent 1 No signal word.
Emit® 2000 Phenobarbital Assay, Reagent 2 No signal word.

Hazard statements : Emit® 2000 Phenobarbital Assay, Reagent 1 No known significant effects or critical hazards.
Emit® 2000 Phenobarbital Assay, Reagent 2 No known significant effects or critical hazards.

Precautionary statements

Prevention : Emit® 2000 Phenobarbital Assay, Reagent 1 Not applicable.
Emit® 2000 Phenobarbital Assay, Reagent 2 Not applicable.

Response : Emit® 2000 Phenobarbital Assay, Reagent 1 Not applicable.
Emit® 2000 Phenobarbital Assay, Reagent 2 Not applicable.

Date of issue/Date of revision : 7/27/2015. **Date of previous issue** : 6/30/2015. **Version** : 1.03 1/13

Section 2. Hazards identification

Storage	: Emit® 2000 Phenobarbital Assay, Reagent 1	Not applicable.
	Emit® 2000 Phenobarbital Assay, Reagent 2	Not applicable.
Disposal	: Emit® 2000 Phenobarbital Assay, Reagent 1	Not applicable.
	Emit® 2000 Phenobarbital Assay, Reagent 2	Not applicable.
Supplemental label elements	: Emit® 2000 Phenobarbital Assay, Reagent 1	None known.
	Emit® 2000 Phenobarbital Assay, Reagent 2	None known.
Hazards not otherwise classified	: Emit® 2000 Phenobarbital Assay, Reagent 1	None known.
	Emit® 2000 Phenobarbital Assay, Reagent 2	None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Emit® 2000 Phenobarbital Assay, Reagent 1	Mixture
	Emit® 2000 Phenobarbital Assay, 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	: Emit® 2000 Phenobarbital Assay, 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.
	Emit® 2000 Phenobarbital Assay, 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	: Emit® 2000 Phenobarbital Assay, 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.
	Emit® 2000 Phenobarbital Assay, 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.

Section 4. First aid measures

Skin contact	: Emit® 2000 Phenobarbital Assay, Reagent 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Emit® 2000 Phenobarbital Assay, Reagent 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Emit® 2000 Phenobarbital Assay, 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.
	Emit® 2000 Phenobarbital Assay, 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 symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Emit® 2000 Phenobarbital Assay, Reagent 1	No known significant effects or critical hazards.
	Emit® 2000 Phenobarbital Assay, Reagent 2	No known significant effects or critical hazards.
Inhalation	: Emit® 2000 Phenobarbital Assay, Reagent 1	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
	Emit® 2000 Phenobarbital Assay, Reagent 2	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: Emit® 2000 Phenobarbital Assay, Reagent 1	No known significant effects or critical hazards.
	Emit® 2000 Phenobarbital Assay, Reagent 2	No known significant effects or critical hazards.
Ingestion	: Emit® 2000 Phenobarbital Assay, Reagent 1	No known significant effects or critical hazards.
	Emit® 2000 Phenobarbital Assay, Reagent 2	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Emit® 2000 Phenobarbital Assay, Reagent 1	No specific data.
	Emit® 2000 Phenobarbital Assay, Reagent 2	No specific data.
Inhalation	: Emit® 2000 Phenobarbital Assay, Reagent 1	No specific data.
	Emit® 2000 Phenobarbital Assay, Reagent 2	No specific data.
Skin contact	: Emit® 2000 Phenobarbital Assay, Reagent 1	No specific data.
	Emit® 2000 Phenobarbital Assay, Reagent 2	No specific data.

Section 4. First aid measures

- Ingestion** : Emit® 2000 Phenobarbital Assay, Reagent No specific data.
1
Emit® 2000 Phenobarbital Assay, Reagent No specific data.
2

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.

- 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.

Section 6. Accidental release measures

- 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.

Section 8. Exposure controls/personal protection

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	: Emit® 2000 Phenobarbital Assay, Reagent	Liquid.
	1	
	Emit® 2000 Phenobarbital Assay, Reagent	Liquid.
	2	
Color	: Emit® 2000 Phenobarbital Assay, Reagent	Clear
	1	
	Emit® 2000 Phenobarbital Assay, Reagent	Clear
	2	
Odor	: Emit® 2000 Phenobarbital Assay, Reagent	Odorless.
	1	
	Emit® 2000 Phenobarbital Assay, Reagent	Odorless.
	2	
pH	: Emit® 2000 Phenobarbital Assay, Reagent	5.5 [Conc. (% w/w): 100%]
	1	
	Emit® 2000 Phenobarbital Assay, Reagent	7.5 [Conc. (% w/w): 100%]
	2	
Flash point	: Emit® 2000 Phenobarbital Assay, Reagent	[Product does not sustain combustion.]
	1	
	Emit® 2000 Phenobarbital Assay, Reagent	[Product does not sustain combustion.]
	2	
Flammability (solid, gas)	: Emit® 2000 Phenobarbital Assay, Reagent	Not available.
	1	
	Emit® 2000 Phenobarbital Assay, Reagent	Not available.
	2	
Relative density	: Emit® 2000 Phenobarbital Assay, Reagent	Not available.
	1	
	Emit® 2000 Phenobarbital Assay, Reagent	Not available.
	2	
Solubility in water	: Emit® 2000 Phenobarbital Assay, Reagent	Not available.
	1	
	Emit® 2000 Phenobarbital Assay, Reagent	Not available.
	2	
Partition coefficient: n-octanol/water	: Emit® 2000 Phenobarbital Assay, Reagent	Not available.
	1	
	Emit® 2000 Phenobarbital Assay, Reagent	Not available.
	2	
Auto-ignition temperature	: Emit® 2000 Phenobarbital Assay, Reagent	Not available.
	1	
	Emit® 2000 Phenobarbital Assay, Reagent	Not available.
	2	
Viscosity	: Emit® 2000 Phenobarbital Assay, Reagent	Not available.
	1	
	Emit® 2000 Phenobarbital Assay, Reagent	Not available.
	2	

Section 10. Stability and reactivity

Reactivity	: Emit® 2000 Phenobarbital Assay, Reagent	No specific test data related to reactivity available for this product or its ingredients.
	1	
	Emit® 2000 Phenobarbital Assay, Reagent	No specific test data related to reactivity available for this product or its ingredients.
	2	
Chemical stability	: Emit® 2000 Phenobarbital Assay, Reagent	The product is stable.
	1	
	Emit® 2000 Phenobarbital Assay, Reagent	The product is stable.
	2	

Section 10. Stability and reactivity

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 :

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin :

Eyes :

Respiratory :

Sensitization

Not available.

Conclusion/Summary

Skin :

Respiratory :

Mutagenicity

Not available.

Conclusion/Summary :

Carcinogenicity

Not available.

Conclusion/Summary :

Reproductive toxicity

Not available.

Conclusion/Summary :

Teratogenicity

Not available.

Conclusion/Summary :

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.

Section 11. Toxicological information

Potential acute health effects

Eye contact	: Emit® 2000 Phenobarbital Assay, Reagent 1	No known significant effects or critical hazards.
	Emit® 2000 Phenobarbital Assay, Reagent 2	No known significant effects or critical hazards.
Inhalation	: Emit® 2000 Phenobarbital Assay, Reagent 1	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
	Emit® 2000 Phenobarbital Assay, Reagent 2	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: Emit® 2000 Phenobarbital Assay, Reagent 1	No known significant effects or critical hazards.
	Emit® 2000 Phenobarbital Assay, Reagent 2	No known significant effects or critical hazards.
Ingestion	: Emit® 2000 Phenobarbital Assay, Reagent 1	No known significant effects or critical hazards.
	Emit® 2000 Phenobarbital Assay, Reagent 2	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Emit® 2000 Phenobarbital Assay, Reagent 1	No specific data.
	Emit® 2000 Phenobarbital Assay, Reagent 2	No specific data.
Inhalation	: Emit® 2000 Phenobarbital Assay, Reagent 1	No specific data.
	Emit® 2000 Phenobarbital Assay, Reagent 2	No specific data.
Skin contact	: Emit® 2000 Phenobarbital Assay, Reagent 1	No specific data.
	Emit® 2000 Phenobarbital Assay, Reagent 2	No specific data.
Ingestion	: Emit® 2000 Phenobarbital Assay, Reagent 1	No specific data.
	Emit® 2000 Phenobarbital Assay, 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	: Emit® 2000 Phenobarbital Assay, Reagent 1	Not available.
	Emit® 2000 Phenobarbital Assay, Reagent 2	Not available.
Potential delayed effects	: Emit® 2000 Phenobarbital Assay, Reagent 1	Not available.
	Emit® 2000 Phenobarbital Assay, Reagent 2	Not available.

Long term exposure

Potential immediate effects	: Emit® 2000 Phenobarbital Assay, Reagent 1	Not available.
	Emit® 2000 Phenobarbital Assay, Reagent 2	Not available.
Potential delayed effects	: Emit® 2000 Phenobarbital Assay, Reagent 1	Not available.
	Emit® 2000 Phenobarbital Assay, Reagent 2	Not available.

Potential chronic health effects

Not available.

Conclusion/Summary :

Section 11. Toxicological information

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.

Other information :

Section 12. Ecological information

Toxicity

Not available.

Conclusion/Summary :

Persistence and degradability

Conclusion/Summary :

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) :

Mobility :

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.
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Section 14. Transport information

DOT Classification

UN number	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	Not regulated. Not regulated.
UN proper shipping name	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -
Transport hazard class(es)	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -

Packing group	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -
Environmental hazards	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	No. No.
Additional information	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -

TDG Classification

UN number	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	Not regulated. Not regulated.
UN proper shipping name	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -
Transport hazard class(es)	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -

Packing group	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -
Environmental hazards	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	No. No.
Additional information	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -

Mexico Classification

UN number	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	Not regulated. Not regulated.
UN proper shipping name	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -
Transport hazard class(es)	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -

Packing group	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -
Environmental hazards	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	No. No.
Additional information	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -

Section 14. Transport information

ADR/RID

UN number	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	Not regulated. Not available.
UN proper shipping name	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- Not available.
Transport hazard class(es)	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- 5.2

Packing group	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -
Environmental hazards	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	No. No.
Additional information	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -

IMDG

UN number	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	Not regulated. Not regulated.
UN proper shipping name	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -
Transport hazard class(es)	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -

Packing group	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -
Environmental hazards	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	No. No.
Additional information	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -

IATA

UN number	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	Not regulated. Not regulated.
UN proper shipping name	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -
Transport hazard class(es)	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -

Packing group	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -
Environmental hazards	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	No. No.
Additional information	Emit® 2000 Phenobarbital Assay, Reagent 1 Emit® 2000 Phenobarbital Assay, Reagent 2	- -

Section 14. Transport information

Special precautions for user :

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 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		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Emit® 2000 Phenobarbital Assay, Reagent 1 sodium azide	0.1	Yes.	500	-	1000	-
Emit® 2000 Phenobarbital Assay, Reagent 2 sodium azide	0.1	Yes.	500	-	1000	-

SARA 304 RQ : 1000000 lbs / 454000 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.

California Prop. 65

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Section 15. Regulatory information

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Emit® 2000 Phenobarbital Assay, Reagent 1 Methanol	No.	Yes.	No.	23000 µg/day (ingestion) 47000 µg/day (inhalation) No.
streptomycin, sulfate (2:3) (salt)	No.	Yes.	No.	No.
Emit® 2000 Phenobarbital Assay, Reagent 2 Methanol	No.	Yes.	No.	23000 µg/day (ingestion) 47000 µg/day (inhalation) No.
streptomycin, sulfate (2:3) (salt)	No.	Yes.	No.	No.

Canada inventory :

International regulations

International lists :

- Australia inventory (AICS)**: Not determined.
- China inventory (IECSC)**: Not determined.
- Japan inventory**: Not determined.
- Korea inventory**: Not determined.
- Malaysia Inventory (EHS Register)**: Not determined.
- New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
- Philippines inventory (PICCS)**: Not determined.
- Taiwan inventory (CSNN)**: Not determined.

Chemical Weapons Convention List Schedule I Chemicals :

Chemical Weapons Convention List Schedule II Chemicals :

Chemical Weapons Convention List Schedule III Chemicals :

Section 16. Other information

History

Date of issue/Date of revision : 7/27/2015.

Version : 1.03

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.

Date of issue/Date of revision : 7/27/2015. **Date of previous issue** : 6/30/2015. **Version** : 1.03 13/13