

1. Product and company identification

Product name	: Emit 2000 Phenobarbital Assay
Code	: 4D019, 5D019, OSR4D229, 00277884, 10462020
Material uses	: Diagnostic agents.
Product type	: Liquid.
Manufactured/supplied	: Siemens Healthcare Diagnostics Inc. 1717 Deerfield Road Deerfield, IL 60015-0778 1-847-267-5300 Siemens Canada Limited 1200 Courtneypark Drive East Mississauga, Ontario, Canada L5T-1P2 Tel (905) 564-7333 Toll free (800) 264-0083 Fax (905) 795-4499
<u>In case of emergency</u>	: Transportation: (800) 424-9300 (CHEMTREC) Medical: (800) 228-5635 ext. 284 (Prosar)

2. Hazards identification

Physical state	: Emit® 2000 Phenobarbital Liquid. Assay, Reagent 1 Emit® 2000 Phenobarbital Liquid. Assay, Reagent 2
OSHA/HCS status	: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency overview	: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing. Not available.
<u>Potential acute health effects</u>	
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin	: No known significant effects or critical hazards.
Eyes	: No known significant effects or critical hazards.
<u>Potential chronic health effects</u>	
Chronic effects	: 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.
Target organs	: Emit® 2000 Phenobarbital Not available. Assay, Reagent 1 Emit® 2000 Phenobarbital Not available. Assay, Reagent 2

2 . Hazards identification

Over-exposure signs/symptoms

- Inhalation** : No specific data.
- Ingestion** : No specific data.
- Skin** : No specific data.
- Eyes** : No specific data.

See toxicological information (section 11)

3 . Composition/information on ingredients

United States

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Emit® 2000 Phenobarbital Assay, Reagent 1		
sodium azide	26628-22-8	0.1
streptomycin sulphate	3810-74-0	<0.1
Emit® 2000 Phenobarbital Assay, Reagent 2		
2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	1185-53-1	1.6
trometamol	77-86-1	1.1
sodium azide	26628-22-8	0.1
streptomycin sulphate	3810-74-0	<0.1

Canada

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Emit® 2000 Phenobarbital Assay, Reagent 2		
trometamol	77-86-1	1.1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4 . First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

5 . Fire-fighting measures

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

Extinguishing media

In case of fire, use water spray (fog), foam or dry chemical.

Not suitable : None known.

Special exposure hazards : 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.

Hazardous combustion products : No specific data.

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.

6 . Accidental release measures

Personal precautions : 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 (see section 8).

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).

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.

7 . Handling and storage

Handling : Put on appropriate personal protective equipment (see section 8). 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.

Storage : 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.

8 . Exposure controls/personal protection

Product name

United States

Emit® 2000 Phenobarbital Assay, Reagent 1
sodium azide

Exposure limits

ACGIH TLV (United States, 3/2012). Notes: as hydrazoic acid vapor
C: 0.11 ppm, (as hydrazoic acid vapor) Form: as Hydrazoic acid vapor
ACGIH TLV (United States, 3/2012).

C: 0.29 mg/m³, (as Sodium azide) Form: as Sodium azide
NIOSH REL (United States, 6/2009). Absorbed through skin. Notes:
NAN3

CEIL: 0.3 mg/m³, (NAN3)
NIOSH REL (United States, 6/2009). Absorbed through skin. Notes:
as HN3

CEIL: 0.1 ppm, (as HN3)
OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.
Notes: as HN3

CEIL: 0.1 ppm, (as HN3)
OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.
Notes: as NaN3
CEIL: 0.3 mg/m³, (as NaN3)

Emit® 2000 Phenobarbital Assay, Reagent 2
sodium azide

ACGIH TLV (United States, 3/2012). Notes: as hydrazoic acid vapor
C: 0.11 ppm, (as hydrazoic acid vapor) Form: as Hydrazoic acid vapor
ACGIH TLV (United States, 3/2012).

C: 0.29 mg/m³, (as Sodium azide) Form: as Sodium azide
NIOSH REL (United States, 6/2009). Absorbed through skin. Notes:
NAN3

8 . Exposure controls/personal protection

CEIL: 0.3 mg/m³, (NaN3)
NIOSH REL (United States, 6/2009). Absorbed through skin. Notes: as HN3

CEIL: 0.1 ppm, (as HN3)
OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. Notes: as HN3

CEIL: 0.1 ppm, (as HN3)
OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. Notes: as NaN3
CEIL: 0.3 mg/m³, (as NaN3)

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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.

Personal protection

Respiratory : 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.

Hands : 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.

Eyes : 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 or dusts.

Skin : 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.

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.

9 . Physical and chemical properties

Physical state : Emit® 2000 Phenobarbital Liquid.
Assay, Reagent 1
Emit® 2000 Phenobarbital Liquid.
Assay, Reagent 2

Flash point : Emit® 2000 Phenobarbital Not available.
Assay, Reagent 1
Emit® 2000 Phenobarbital Not available.
Assay, Reagent 2

9 . Physical and chemical properties

Auto-ignition temperature	: Emit® 2000 Phenobarbital Not available. Assay, Reagent 1 Emit® 2000 Phenobarbital Not available. Assay, Reagent 2
Flammable limits	: Emit® 2000 Phenobarbital Not available. Assay, Reagent 1 Emit® 2000 Phenobarbital Not available. Assay, Reagent 2
Color	: Emit® 2000 Phenobarbital Clear Assay, Reagent 1 Emit® 2000 Phenobarbital Clear Assay, Reagent 2
Molecular weight	: Emit® 2000 Phenobarbital Not applicable. Assay, Reagent 1 Emit® 2000 Phenobarbital Not applicable. Assay, Reagent 2
Molecular formula	: Emit® 2000 Phenobarbital Not applicable. Assay, Reagent 1 Emit® 2000 Phenobarbital Not applicable. Assay, Reagent 2
pH	: Emit® 2000 Phenobarbital 5.5 [Conc. (% w/w): 100%] Assay, Reagent 1 Emit® 2000 Phenobarbital 7.5 [Conc. (% w/w): 100%] Assay, Reagent 2
Boiling/condensation point	: Emit® 2000 Phenobarbital Not available. Assay, Reagent 1 Emit® 2000 Phenobarbital Not available. Assay, Reagent 2
Melting/freezing point	: Emit® 2000 Phenobarbital Not available. Assay, Reagent 1 Emit® 2000 Phenobarbital Not available. Assay, Reagent 2
Relative density	: Emit® 2000 Phenobarbital Not available. Assay, Reagent 1 Emit® 2000 Phenobarbital Not available. Assay, Reagent 2
Vapor pressure	: Emit® 2000 Phenobarbital Not available. Assay, Reagent 1 Emit® 2000 Phenobarbital Not available. Assay, Reagent 2
Volatility	: Emit® 2000 Phenobarbital Not available. Assay, Reagent 1 Emit® 2000 Phenobarbital Not available. Assay, Reagent 2
Evaporation rate	: Emit® 2000 Phenobarbital Not available. Assay, Reagent 1 Emit® 2000 Phenobarbital Not available. Assay, Reagent 2
VOC	: 0.1 % (w/w)
Viscosity	: Emit® 2000 Phenobarbital Not available. Assay, Reagent 1 Emit® 2000 Phenobarbital Not available. Assay, Reagent 2

10 . Stability and reactivity

Stability	: The product is stable.
Conditions to avoid	: No specific data.
Materials to avoid	: No specific data. Not available.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

11 . Toxicological information

United States

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
Emit® 2000 Phenobarbital Assay, Reagent 1 sodium azide	LD50 Dermal	Rat	50 mg/kg	-	
	LD50 Dermal	Rabbit	20 mg/kg	-	
	LD50	Rat	47.5 mg/kg	-	
	Intratracheal				
	LD50	Rat	47500 ug/kg	-	
	Intratracheal				
	LD50 Oral	Rat	27 mg/kg	-	
	LD50	Rat	45 mg/kg	-	
	Subcutaneous				
	LD50	Rat	45100 ug/kg	-	
	Subcutaneous				
	LDLo	Rat	30 mg/kg	-	
	Intraperitoneal				
	LDLo	Rat	3 mg/kg	-	
	Intraperitoneal				
streptomycin sulphate	LD50	Rat	1219 mg/kg	-	
	Intraperitoneal				
	LD50 Oral	Rat	430 mg/kg	-	
	LD50	Rat	600 mg/kg	-	
Emit® 2000 Phenobarbital Assay, Reagent 2 trometamol	LD50 Intravenous	Rat	3.28 g/kg	-	
	LD50 Intravenous	Rat	1800 mg/kg	-	
	TDLo Oral	Rat	3000 mg/kg	-	
	sodium azide	LD50 Dermal	Rat	50 mg/kg	-
		LD50 Dermal	Rabbit	20 mg/kg	-
		LD50	Rat	47.5 mg/kg	-
		Intratracheal			
		LD50	Rat	47500 ug/kg	-
		Intratracheal			
		LD50 Oral	Rat	27 mg/kg	-
		LD50	Rat	45 mg/kg	-
		Subcutaneous			
		LD50	Rat	45100 ug/kg	-
Subcutaneous					
LDLo	Rat	30 mg/kg	-		
Intraperitoneal					
LDLo	Rat	3 mg/kg	-		

11 . Toxicological information

streptomycin sulphate	Intraperitoneal				
	LD50	Rat	1219 mg/kg	-	
	Intraperitoneal				
	LD50 Oral	Rat	430 mg/kg	-	
	LD50	Rat	600 mg/kg	-	
	Subcutaneous				
	TDL _o Intraspinal	Rat	22.72 ug/kg	-	

Chronic toxicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Emit® 2000 Phenobarbital Assay, Reagent 1						
sodium azide	A4	-	-	None.	-	-
streptomycin sulphate	-	-	-	None.	-	-

Emit® 2000 Phenobarbital Assay, Reagent 2

sodium azide	A4	-	-	None.	-	-
streptomycin sulphate	-	-	-	None.	-	-

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Canada

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Emit® 2000 Phenobarbital Assay, Reagent 2				
trometamol	LD50 Intravenous	Rat	3.28 g/kg	-
	LD50 Intravenous	Rat	1800 mg/kg	-
	TDL _o Oral	Rat	3000 mg/kg	-

Chronic toxicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Emit® 2000 Phenobarbital Assay, Reagent 1						
sodium azide	A4	-	-	None.	-	-
streptomycin sulphate	-	-	-	None.	-	-
Emit® 2000 Phenobarbital Assay, Reagent 2						
sodium azide	A4	-	-	None.	-	-

11 . Toxicological information

streptomycin sulphate	-	-	-	None.	-	-
Mutagenicity	Not available.					
Teratogenicity	Not available.					
Reproductive toxicity	Not available.					

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

United States

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Emit® 2000 Phenobarbital Assay, Reagent 1				
sodium azide	-	Acute EC50 6.4 to 8.9 mg/L Fresh water	Crustaceans - Water flea - Simocephalus serrulatus - Larvae - es7:k56s:7pt	48 hours
	-	Acute EC50 4.2 to 6.2 mg/L Fresh water	Daphnia - Water flea - Daphnia pulex - Larvae - es7:k56s:7pt	48 hours
	-	Acute EC50 0.348 mg/L Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata	96 hours
	-	Acute EC50 9200 ug/L Marine water	Algae - Giant kelp - Macrocystis pyrifera	96 hours
	-	Acute LC50 0.8 mg/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 1.4 g	96 hours
	-	Acute LC50 0.68 mg/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 0.6 g	96 hours
	-	Acute LC50 9000 ug/L Fresh water	Crustaceans - Scud - Gammarus lacustris - 2 months	48 hours
	-	Acute LC50 3920 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 8.57 cm - 7.84 g	96 hours
	-	Acute LC50 2840 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus	96 hours

12 . Ecological information

			mykiss - 7.87 cm - 6.07 g	
	-	Acute LC50 2750 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 7.32 cm - 4.76 g	96 hours
streptomycin sulphate	-	Chronic NOEC 5600 ug/L Marine water	Algae - Giant kelp - Macrocystis pyrifera	96 hours
	-	Acute EC50 487 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
	-	Acute EC50 0.133 mg/L Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata - Exponential growth phase	3 days
	-	Acute EC50 650 ppm Fresh water	Daphnia - Water flea - Daphnia magna - Larvae - es7:k56s:7pt	48 hours
	-	Acute EC50 363000 ug/L	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 >180 ppm Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
	-	Chronic NOEC 32 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	21 days
Emit® 2000 Phenobarbital Assay, Reagent 2 sodium azide	-	Acute EC50 6.4 to 8.9 mg/L Fresh water	Crustaceans - Water flea - Simocephalus serrulatus - Larvae - es7:k56s:7pt	48 hours
	-	Acute EC50 4.2 to 6.2 mg/L Fresh water	Daphnia - Water flea - Daphnia pulex - Larvae - es7:k56s:7pt	48 hours
	-	Acute EC50 0.348 mg/L Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata	96 hours
	-	Acute EC50 9200 ug/L Marine water	Algae - Giant kelp - Macrocystis pyrifera	96 hours
	-	Acute LC50 0.8 mg/L Fresh water	Fish - Rainbow trout,donaldson	96 hours

12 . Ecological information

	-	Acute LC50 0.68 mg/L Fresh water	trout - Oncorhynchus mykiss - 1.4 g Fish - Bluegill - Lepomis macrochirus - 0.6 g	96 hours
	-	Acute LC50 9000 ug/L Fresh water	Crustaceans - Scud - Gammarus lacustris - 2 months	48 hours
	-	Acute LC50 3920 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 8.57 cm - 7.84 g	96 hours
	-	Acute LC50 2840 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 7.87 cm - 6.07 g	96 hours
	-	Acute LC50 2750 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 7.32 cm - 4.76 g	96 hours
	-	Chronic NOEC 5600 ug/L Marine water	Algae - Giant kelp - Macrocystis pyrifera	96 hours
streptomycin sulphate	-	Acute EC50 487 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
	-	Acute EC50 0.133 mg/L Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata - Exponential growth phase	3 days
	-	Acute EC50 650 ppm Fresh water	Daphnia - Water flea - Daphnia magna - Larvae - es7:k56s:7pt	48 hours
	-	Acute EC50 363000 ug/L	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 >180 ppm Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
	-	Chronic NOEC 32 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	21 days

12 . Ecological information

Biodegradability

Not available.

Canada

Aquatic ecotoxicity

Not available.

Biodegradability

Not available.

13 . Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14 . Transport information

International transport regulations

DOT Classification

UN number	Emit@ 2000 Phenobarbital Assay, Reagent 1	Not regulated.
	Emit@ 2000 Phenobarbital Assay, Reagent 2	Not regulated.
Proper shipping name	Emit@ 2000 Phenobarbital Assay, Reagent 1	-
	Emit@ 2000 Phenobarbital Assay, Reagent 2	-
Classes	Emit@ 2000 Phenobarbital Assay, Reagent 1	-
	Emit@ 2000 Phenobarbital Assay, Reagent 2	-
PG*	Emit@ 2000 Phenobarbital Assay, Reagent 1	-
	Emit@ 2000 Phenobarbital Assay, Reagent 2	-
Label		
Additional information	Emit@ 2000 Phenobarbital Assay, Reagent 1	-
	Emit@ 2000 Phenobarbital Assay, Reagent 2	-

TDG Classification

UN number	Emit@ 2000 Phenobarbital Assay, Reagent 1	Not regulated.
	Emit@ 2000 Phenobarbital Assay, Reagent 2	Not regulated.
Proper shipping name	Emit@ 2000 Phenobarbital Assay, Reagent 1	-
	Emit@ 2000 Phenobarbital Assay, Reagent 2	-
Classes	Emit@ 2000 Phenobarbital Assay, Reagent 1	-
	Emit@ 2000 Phenobarbital Assay, Reagent 2	-

14 . Transport information

PG*	Emit® 2000 Phenobarbital Assay, Reagent 1	-
	Emit® 2000 Phenobarbital Assay, Reagent 2	-

Label

Additional information	Emit® 2000 Phenobarbital Assay, Reagent 1	-
	Emit® 2000 Phenobarbital Assay, Reagent 2	-

Mexico Classification

UN number	Emit® 2000 Phenobarbital Assay, Reagent 1	Not regulated.
	Emit® 2000 Phenobarbital Assay, Reagent 2	Not regulated.

Proper shipping name	Emit® 2000 Phenobarbital Assay, Reagent 1	-
	Emit® 2000 Phenobarbital Assay, Reagent 2	-

Classes	Emit® 2000 Phenobarbital Assay, Reagent 1	-
	Emit® 2000 Phenobarbital Assay, Reagent 2	-

PG*	Emit® 2000 Phenobarbital Assay, Reagent 1	-
	Emit® 2000 Phenobarbital Assay, Reagent 2	-

Label

Additional information	Emit® 2000 Phenobarbital Assay, Reagent 1	-
	Emit® 2000 Phenobarbital Assay, Reagent 2	-

IMDG Class

UN number	Emit® 2000 Phenobarbital Assay, Reagent 1	Not regulated.
	Emit® 2000 Phenobarbital Assay, Reagent 2	Not regulated.

Proper shipping name	Emit® 2000 Phenobarbital Assay, Reagent 1	-
	Emit® 2000 Phenobarbital Assay, Reagent 2	-

Classes	Emit® 2000 Phenobarbital Assay, Reagent 1	-
	Emit® 2000 Phenobarbital Assay, Reagent 2	-

PG*	Emit® 2000 Phenobarbital Assay, Reagent 1	-
	Emit® 2000 Phenobarbital Assay, Reagent 2	-

Label

Additional information	Emit® 2000 Phenobarbital Assay, Reagent 1	-
	Emit® 2000 Phenobarbital Assay, Reagent 2	-

IATA-DGR Class

UN number	Emit® 2000 Phenobarbital Assay, Reagent 1	Not regulated.
	Emit® 2000 Phenobarbital Assay, Reagent 2	Not regulated.

Proper shipping name	Emit® 2000 Phenobarbital Assay, Reagent 1	-
	Emit® 2000 Phenobarbital Assay, Reagent 2	-

Classes	Emit® 2000 Phenobarbital Assay, Reagent 1	-
	Emit® 2000 Phenobarbital Assay, Reagent 2	-

PG*	Emit® 2000 Phenobarbital Assay, Reagent 1	-
	Emit® 2000 Phenobarbital Assay, Reagent 2	-

Label

Additional information	Emit® 2000 Phenobarbital Assay, Reagent 1	-
	Emit® 2000 Phenobarbital Assay, Reagent 2	-

PG* : Packing group

14 . Transport information

15 . Regulatory information

United States

HCS Classification

: Not regulated.

U.S. Federal regulations

: **TSCA 8(a) IUR**: Albumins, blood serum; Oxirane, 2-methyl-, polymer with oxirane
United States inventory (TSCA 8b): Not determined.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: methanol

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations

: **Connecticut Carcinogen Reporting**: None of the components are listed.

Connecticut Hazardous Material Survey: None of the components are listed.

Florida substances: None of the components are listed.

Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.

Louisiana Reporting: None of the components are listed.

Louisiana Spill: None of the components are listed.

Massachusetts Spill: None of the components are listed.

Massachusetts Substances: None of the components are listed.

Michigan Critical Material: None of the components are listed.

Minnesota Hazardous Substances: None of the components are listed.

New Jersey Hazardous Substances: None of the components are listed.

New Jersey Spill: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.

New York Acutely Hazardous Substances: None of the components are listed.

New York Toxic Chemical Release Reporting: None of the components are listed.

Pennsylvania RTK Hazardous Substances: None of the components are listed.

Rhode Island Hazardous Substances: None of the components are listed.

15 . Regulatory information

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.

<u>Ingredient name</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Maximum acceptable dosage level</u>
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Emit® 2000 Phenobarbital Assay, Reagent 1

methanol	No.	Yes.	No.	No.
streptomycin sulphate	No.	Yes.	No.	No.

Emit® 2000 Phenobarbital Assay, Reagent 2

methanol	No.	Yes.	No.	No.
streptomycin sulphate	No.	Yes.	No.	No.

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

Use only for medical diagnostic (R&D) purposes

Canada

WHMIS (Canada) : Not controlled under WHMIS (Canada).

Canadian lists : **CEPA Toxic substances:** None of the components are listed.
Canadian ARET: None of the components are listed.
Canadian NPRI: None of the components are listed.
Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.

Canada inventory : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16 . Other information

EU regulations

Hazard symbol or symbols :



Harmful

Risk phrases : R22- Harmful if swallowed.

Safety phrases : S46- If swallowed, seek medical advice immediately and show this container or label.

International regulations

International lists : **Australia inventory (AICS):** Not determined.
China inventory (IECSC): Not determined.
Japan inventory: Not determined.
Korea inventory: Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.

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16 . Other information

[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.