# SAFETY DATA SHEET

### 2000 Phonobarbital

**SIEMENS** 

MSDS no.

IMMULITE® 2000 Phenobarbital

L2KPB2\_6

# 1. Identification of the substance/preparation and company/undertaking

Identification of the substance or mixture					
Product name	: 1	MMULITE® 2000 Phenobarbital			
Product code	: L	_2KPB2/6, 10381542, 10381549			
Product type	: L	_iquid.			
Use of the substance/mixture	: [	Diagnostic Agents			
Company/undertaking identification					

Manufactured/supplied	:	Siemens Healthcare Diagnostics Limited Sir William Siemens Square Newton House Camberley Frimley Surrey GU16 8QD UK
		Phone: +44 (0) 1276 696000 Fax: +44 (0)1276 696133
e-mail	:	dx.msds.healthcare@siemens.com
Emergency telephone number	:	+49 6131 - 19240; [24x7x365]

(with hours of operation)

### 2. Hazards identification

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	: Not classified.	
Physical/chemical hazards	: Phenobarbital Reagent Wedge. Phenobarbital Adjustors	Not applicable. Not applicable.
Human health hazards	: Phenobarbital Reagent Wedge. Phenobarbital Adjustors	Not applicable. Not applicable.
Environmental hazards	: Phenobarbital Reagent Wedge. Phenobarbital Adjustors Potentially biohazardous material.	Not applicable. Not applicable.

See section 11 for more detailed information on health effects and symptoms.

# 3. Composition/information on ingredients

#### Substance/preparation

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

First-aid measures	
Inhalation	: Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. 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.
Ingestion	: Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. 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.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.</li> </ul>

See section 11 for more detailed information on health effects and symptoms.

### 5. Fire-fighting measures

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Extinguishing media	
Suitable	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Not suitable	: None known.
Special exposure hazards	: In a fire or if heated, a pressure increase will occur and the container may burst.
	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	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

### 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 spilt material. Put on appropriate personal protective equipment (see section 8).		
Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, d and sewers. Inform the relevant authorities if the product has caused environ pollution (sewers, waterways, soil or air).		
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### 6. Accidental release measures

**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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

#### **Packaging materials**

Recommended

: Use original container.

### 8. Exposure controls/personal protection

Exposure limit values	
Ingredient name	Occupational exposure limits
No exposure limit value knowr	۱.
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. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
Exposure controls	
Occupational exposure controls	: 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.
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.
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.
Eye 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 or dusts.
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#### **Exposure controls/personal protection** 8.

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Skin protection	<ul> <li>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.</li> </ul>
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.

#### Physical and chemical properties 9.

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General information			
<u>Appearance</u>			
Physical state	1	Phenobarbital Reagent Wedge.	Liquid.
		Phenobarbital Adjustors	Liquid.
Colour	-	Phenobarbital Reagent Wedge.	Colourless.
		Phenobarbital Adjustors	Colourless.
Important health, safety and	en	vironmental information	
рН	:		7.95 to 8.05
		Phenobarbital Adjustors	Not applicable.
Boiling point	:	Phenobarbital Reagent Wedge.	Not available.
		Phenobarbital Adjustors	Not available.
Melting point	:	Phenobarbital Reagent Wedge.	Not available.
		Phenobarbital Adjustors	Not available.
Flash point	:	Phenobarbital Reagent Wedge.	Not available.
		Phenobarbital Adjustors	Not available.
Explosion limits	:	Phenobarbital Reagent Wedge.	Not available.
		Phenobarbital Adjustors	Not available.
Vapour pressure	:	Phenobarbital Reagent Wedge.	Not available.
		Phenobarbital Adjustors	Not available.
Relative density	1	Phenobarbital Reagent Wedge.	1
		Phenobarbital Adjustors	1
Octanol/water partition coefficient	:	Phenobarbital Reagent Wedge.	Not available.
		Phenobarbital Adjustors	Not available.
Viscosity	-	Phenobarbital Reagent Wedge.	Not available.
		Phenobarbital Adjustors	Not available.
Evaporation rate (butyl acetate = 1)	1	Phenobarbital Reagent Wedge.	Not available.
		Phenobarbital Adjustors	Not available.
Other information			
Auto-ignition temperature	:	Phenobarbital Reagent Wedge.	Not available.
		Phenobarbital Adjustors	Not available.
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# 10. Stability and reactivity

producto		
Hazardous decomposition products	1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Materials to avoid	:	No specific data.
Conditions to avoid	1	No specific data.
Stability	1	The product is stable.

# 11. Toxicological information

Potential acute health effect	<u>s</u>						
Inhalation	:	Exposure to decom may be delayed fol			cause a health ha	zard. Serio	ous effects
Ingestion	:	No known significa	nt effects o	r critical haza	ards.		
Skin contact	:	No known significa	nt effects o	r critical haza	ards.		
Eye contact	:	No known significa	nt effects o	r critical haza	ards.		
Acute toxicity							
<b>Product/ingredient name</b> Not available.		Result	:	Species	Dose	Ехр	osure
Potential chronic health effe	cts						
Chronic toxicity							
<b>Product/ingredient name</b> Not available.		Result	:	Species	Dose	Ехр	osure
<b>Carcinogenicity</b>							
<b>Product/ingredient name</b> Not available.		Result	:	Species	Dose	Ехр	osure
<b>Mutagenicity</b>							
<b>Product/ingredient name</b> Not available.		Test		Expe	riment	Result	
<b>Teratogenicity</b>							
Product/ingredient name Not available.		Result	:	Species	Dose	Exp	osure
<b>Reproductive toxicity</b>							
Product/ingredient name		Maternal toxicity	Fertility	Develop toxin	mental Species	Dose	Exposure
Not available.							
Chronic effects	:	No known significa	nt effects o	r critical haza	ards.		
Carcinogenicity	:	No known significa	nt effects o	r critical haza	ards.		
Mutagenicity	:	No known significa	nt effects o	r critical haza	ards.		
Teratogenicity	:	No known significa	nt effects o	r critical haza	ards.		
Developmental effects	:	No known significa	nt effects o	r critical haza	ards.		
Fertility effects	:	No known significa	nt effects o	r critical haza	ards.		
Over-exposure signs/sympto	oms						
Inhalation	:	No specific data.					
Ingestion	:	No specific data.					
Skin	:	No specific data.					
Eyes	:	No specific data.					
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# 11. Toxicological information

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Other adverse effects	: Phenobarbital Reagent Wedge. Phenobarbital Adjustors	Not available. Not available.		
12. Ecological in	formation			
Environmental effects	: No known significant effects or c	ritical hazards.		
Aquatic ecotoxicity				
<b>Conclusion/Summary</b>	: Not available.			
<b>Biodegradability</b>				
<b>Conclusion/Summary</b>	: Not available.			
Other adverse effects	: No known significant effects or c	ritical hazards.		
13. Disposal con	siderations			
Methods of disposal	containers or liners may retain so container must be disposed of in products via a licensed waste dis and any by-products should at al environmental protection and wa	: The generation of waste should be avoided or minimised 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 spilt material and runoff and contact with soil, waterways, drains and sewers.		
Hazardous waste	: Within the present knowledge of hazardous waste, as defined by I	the supplier, this product is not regarded as EU Directive 91/689/EEC.		
European waste catalogue (EWC)	: Hazardous waste 18 01 06* chemicals consisting o Non-hazardous waste 18 01 07 chemicals other than th	of or containing dangerous substances nose mentioned in 18 01 06		
	Sodium azide may react with lea	d or copper plumbing to form highly explosive metal		

# 14. Transport information

azides.

#### International transport regulations

ADR/RID Class		
UN number	Phenobarbital Reagent Wedge. Phenobarbital Adjustors	Not regulated. Not regulated.
Proper shipping name	Phenobarbital Reagent Wedge. Phenobarbital Adjustors	-
Classes	Phenobarbital Reagent Wedge. Phenobarbital Adjustors	-
PG*	Phenobarbital Reagent Wedge. Phenobarbital Adjustors	-
Label		
Additional information	Phenobarbital Reagent Wedge. Phenobarbital Adjustors	-
ADN/ADNR Class		
UN number	Phenobarbital Reagent Wedge. Phenobarbital Adjustors	Not regulated. Not regulated.

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revision		

### 14. Transport information

Proper shipping	Phenobarbital Reagent Wedge.	-
name	Phenobarbital Adjustors	-
Classes	Phenobarbital Reagent Wedge.	-
	Phenobarbital Adjustors	-
PG*	Phenobarbital Reagent Wedge.	-
	Phenobarbital Adjustors	-
Label		
Additional	Phenobarbital Reagent Wedge.	-
information	Phenobarbital Adjustors	-
IMDG Class		
UN number	Phenobarbital Reagent Wedge.	Not regulated.
	Phenobarbital Adjustors	Not regulated.
Proper shipping	Phenobarbital Reagent Wedge.	-
name	Phenobarbital Adjustors	-
Classes	Phenobarbital Reagent Wedge.	-
	Phenobarbital Adjustors	-
PG*	Phenobarbital Reagent Wedge.	-
	Phenobarbital Adjustors	-
Label		
Additional	Phenobarbital Reagent Wedge.	-
information	Phenobarbital Adjustors	-
IATA Class		
UN number	Phenobarbital Reagent Wedge.	Not regulated.
	Phenobarbital Adjustors	Not regulated.
Proper shipping	Phenobarbital Reagent Wedge.	-
name	Phenobarbital Adjustors	-
Classes	Phenobarbital Reagent Wedge.	-
	Phenobarbital Adjustors	-
PG*	Phenobarbital Reagent Wedge.	-
	Phenobarbital Adjustors	-
Label		
Additional	Phenobarbital Reagent Wedge.	-
information	Phenobarbital Adjustors	-

#### PG\* : Packing group

## 15. Regulatory information

#### EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

- **Risk phrases**
- : This product is not classified as dangerous according to EU legislation.

Product use

- : Industrial applications.
- Europe inventory
- : Not determined.

### **16.** Other information

<u>History</u>	
Date of issue/Date of revision	: 1/23/2013.
Version	: 1.01
Prepared by	: Siemens Healthcare Diagnostics EHS Product Stewardship

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.