

# SAFETY DATA SHEET

IMMULITE® 2000 EPO MONO-MONO KIT

SDS no.:

L2KEPN2

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** : IMMULITE® 2000 EPO MONO-MONO KIT  
**Product code** : L2KEPN2, 10487628, L2KEPN6, 10487629

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

**Identified uses** EPO Reagent Wedge for IMMULITE® Diagnostic agents.  
 EPO Adjustor for IMMULITE® Diagnostic agents.

**Restrictions on use** For professional users only.

**Supplier** : Siemens Healthcare Diagnostics Limited  
 Park View,  
 Watchmoor Park,  
 Camberley,  
 Surrey,  
 GU15 3YL  
 United Kingdom

Phone: +44 (0) 345 600 1955

**e-mail address of person responsible for this SDS** : dx.msds.healthcare@siemens-healthineers.com

### 1.4 Emergency telephone number

CHEMTREC: +44 20 3807 3798

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : EPO Reagent Wedge for IMMULITE® Mixture  
 EPO Adjustor for IMMULITE® Mixture

#### Classification according to UK CLP/GHS

##### **EPO Reagent Wedge for IMMULITE®**

Skin Sens. 1, H317

##### **EPO Adjustor for IMMULITE®**

Acute Tox. 4, H302

Acute Tox. 4, H312

Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

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

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : EPO Reagent Wedge for IMMULITE® Warning  
 EPO Adjustor for IMMULITE® Warning

## SECTION 2: Hazards identification

<b>Hazard statements</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	H317 - May cause an allergic skin reaction. H302 + H312 - Harmful if swallowed or in contact with skin. H412 - Harmful to aquatic life with long lasting effects.
 <b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P273 - Avoid release to the environment.
<b>Response</b>	: EPO Reagent Wedge for IMMULITE®  EPO Adjustor for IMMULITE®	P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Storage</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not applicable. Not applicable.
<b>Disposal</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.
<b>Supplemental label elements</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not applicable. Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not applicable. Not applicable.
 <b>2.3 Other hazards</b>		
<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: EPO Reagent Wedge for IMMULITE®  EPO Adjustor for IMMULITE®	This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
<b>Other hazards which do not result in classification</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	None known. None known.
<b>Additional information</b>	: Not available.  Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.	

IMMULITE® 2000 EPO MONO-MONO KIT

## SECTION 3: Composition/information on ingredients

**3.1 Substances** : EPO Reagent Wedge for IMMULITE® Mixture  
EPO Adjustor for IMMULITE® Mixture

Product/ingredient name	Identifiers	%	Classification	Type
<b>EPO Reagent Wedge for IMMULITE®</b> aminocaproic acid	EC: 200-469-3 CAS: 60-32-2	≤3	Eye Irrit. 2, H319	[1]
3(2H)-Isothiazolone, 2-methyl-	EC: 220-239-6 CAS: 2682-20-4	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) EUH071	[1]
zinc chloride	EC: 231-592-0 CAS: 7646-85-7 Index: 030-003-00-2	<0.01	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	[1] [2]
<b>EPO Adjustor for IMMULITE®</b> sodium azide	EC: 247-852-1 CAS: 26628-22-8 Index: 011-004-00-7	<2	Acute Tox. 2, H300 Acute Tox. 1, H310 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) EUH032 <b>See Section 16 for the full text of the H statements declared above.</b>	[1] [2]

### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<p><b>Eye contact</b> : EPO Reagent Wedge for IMMULITE®</p> <p>EPO Adjustor for IMMULITE®</p>	<p>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.</p> <p>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.</p>
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## SECTION 4: First aid measures

<b>Inhalation</b>	: EPO Reagent Wedge for IMMULITE®	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.
	EPO Adjustor for IMMULITE®	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.
<b>Skin contact</b>	: EPO Reagent Wedge for IMMULITE®	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	EPO Adjustor for IMMULITE®	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## SECTION 4: First aid measures

<b>Ingestion</b>	: EPO Reagent Wedge for IMMULITE®	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	EPO Adjustor for IMMULITE®	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Protection of first-aiders</b>	: EPO Reagent Wedge for IMMULITE®	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	EPO Adjustor for IMMULITE®	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	No specific data. No specific data.
<b>Inhalation</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	No specific data. No specific data.

## SECTION 4: First aid measures

<b>Skin contact</b>	: EPO Reagent Wedge for IMMULITE®	Adverse symptoms may include the following: irritation redness
	EPO Adjustor for IMMULITE®	No specific data.
<b>Ingestion</b>	: EPO Reagent Wedge for IMMULITE®	No specific data.
	EPO Adjustor for IMMULITE®	No specific data.
 <b>4.3 Indication of any immediate medical attention and special treatment needed</b>		
<b>Notes to physician</b>	: EPO Reagent Wedge for IMMULITE®	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.
	EPO Adjustor for IMMULITE®	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.
<b>Specific treatments</b>	: EPO Reagent Wedge for IMMULITE®	No specific treatment.
	EPO Adjustor for IMMULITE®	No specific treatment.
	EPO Reagent Wedge for IMMULITE®	Not available.
	EPO Adjustor for IMMULITE®	Not available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: None known.

### 5.2 Special hazards arising from the substance or mixture

<b>Hazards from the substance or mixture</b>	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>Hazardous combustion products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

### 5.3 Advice for firefighters

<b>Special protective actions for fire-fighters</b>	: 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.
<b>Special protective equipment for fire-fighters</b>	: 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

### 6.1 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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".

- 6.2 Environmental precautions** : Avoid dispersal of spilt 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). Water polluting material. May be harmful to the environment if released in large quantities.

### 6.3 Methods and material 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. Approach the release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- 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.

### 7.2 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

- Recommendations** : Not available.

IMMULITE® 2000 EPO MONO-MONO KIT

## SECTION 7: Handling and storage

Industrial sector specific solutions : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
<b>EPO Reagent Wedge for IMMULITE®</b> zinc chloride	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b> STEL: 2 mg/m <sup>3</sup> 15 minutes. Form: Fume TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Fume
<b>EPO Adjustor for IMMULITE®</b> sodium azide	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</b> STEL: 0.3 mg/m <sup>3</sup> , (as NaN <sub>3</sub> ) 15 minutes. TWA: 0.1 mg/m <sup>3</sup> , (as NaN <sub>3</sub> ) 8 hours.

**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 appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
<b>EPO Reagent Wedge for IMMULITE®</b> 3(2H)-Isothiazolone, 2-methyl-  zinc chloride	DNEL	Long term Inhalation	0.021 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	0.021 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	0.027 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	0.043 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	0.043 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Oral	0.053 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	8.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	8.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.25 mg/m <sup>3</sup>	General population	Systemic
<b>EPO Adjustor for IMMULITE®</b> sodium azide	DNEL	Long term Oral	16.7 µg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	16.7 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	29 µg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	46.7 µg/kg bw/day	Workers	Systemic
	DNEL	Long term	0.164 mg/	Workers	Systemic

## SECTION 8: Exposure controls/personal protection

	Inhalation	m <sup>3</sup>		
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### PNECs

No PNECs available

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### 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. Contaminated work clothing should not be allowed out of the workplace. 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**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.

**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.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state** : EPO Reagent Wedge for IMMULITE® Liquid.  
EPO Adjustor for IMMULITE® Solid.

**Colour** : EPO Reagent Wedge for IMMULITE® Colourless to light yellow.  
EPO Adjustor for IMMULITE® Not available.

**Odour** : EPO Reagent Wedge for IMMULITE® Odourless.  
EPO Adjustor for IMMULITE® Odourless.

**Odour threshold** : Not relevant/applicable due to nature of the product.

**Melting point/freezing point** : Not relevant/applicable due to nature of the product.

**SECTION 9: Physical and chemical properties**

<b>Softening point</b>	:	Not relevant/applicable due to nature of the product.
<b>Sublimation temperature</b>	:	Not relevant/applicable due to nature of the product.
<b>Initial boiling point and boiling range</b>	:	EPO Reagent Wedge for IMMULITE® Not available. EPO Adjustor for IMMULITE® Not available.
<b>Flammability (solid, gas)</b>	:	EPO Reagent Wedge for IMMULITE® Not relevant/applicable due to nature of the product. EPO Adjustor for IMMULITE® Not relevant/applicable due to nature of the product.
<b>Upper/lower flammability or explosive limits</b>	:	EPO Reagent Wedge for IMMULITE® Not available. EPO Adjustor for IMMULITE® Not applicable.
<b>Flash point</b>	:	EPO Reagent Wedge for IMMULITE® [Product does not sustain combustion.] EPO Adjustor for IMMULITE® [Product does not sustain combustion.]
<b>Auto-ignition temperature</b>	:	

Ingredient name	°C	°F	Method
EPO Reagent Wedge for IMMULITE®			
magnesium di(acetate)	310	590	EU A.16

<b>Decomposition temperature</b>	:	Not relevant/applicable due to nature of the product.
<b>pH</b>	:	EPO Reagent Wedge for IMMULITE® 6.95 to 7.05 EPO Adjustor for IMMULITE® Not applicable.
<b>Viscosity</b>	:	EPO Reagent Wedge for IMMULITE® Not available. EPO Adjustor for IMMULITE® Not applicable.
<b>Solubility(ies)</b>	:	Not available.
<b>Solubility in water</b>	:	Not relevant/applicable due to nature of the product.
<b>Miscible with water</b>	:	Not relevant/applicable due to nature of the product.
<b>Partition coefficient: n-octanol/ water</b>	:	Not relevant/applicable due to nature of the product.
<b>Vapour pressure</b>	:	

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
EPO Reagent Wedge for IMMULITE®						
4-(2-hydroxyethyl)piperazin-1-ylethanesulphonic acid	0	0				

<b>Evaporation rate</b>	:	Not relevant/applicable due to nature of the product.
<b>Relative density</b>	:	EPO Reagent Wedge for IMMULITE® 1 EPO Adjustor for IMMULITE® Not available.
<b>Density</b>	:	EPO Reagent Wedge for IMMULITE® Not available. EPO Adjustor for IMMULITE® Not available.
<b>Vapour density</b>	:	EPO Reagent Wedge for IMMULITE® Not available. EPO Adjustor for IMMULITE® Not applicable.
<b>Explosive properties</b>	:	EPO Reagent Wedge for IMMULITE® Not available. EPO Adjustor for IMMULITE® Not available.
<b>Oxidising properties</b>	:	EPO Reagent Wedge for IMMULITE® Not available. EPO Adjustor for IMMULITE® Not available.

**Particle characteristics**

<b>Median particle size</b>	:	Not applicable.
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**9.2 Other information**

<b>Fire point</b>	:	EPO Reagent Wedge for IMMULITE® Not available. EPO Adjustor for IMMULITE® Not available.
<b>Burning time</b>	:	Not relevant/applicable due to nature of the product.

IMMULITE® 2000 EPO MONO-MONO KIT

## SECTION 9: Physical and chemical properties

<b>Fundamental burning velocity</b>	: Not relevant/applicable due to nature of the product.
<b>Burning rate</b>	: Not relevant/applicable due to nature of the product.
<b>SADT</b>	: Not relevant/applicable due to nature of the product.
<b>SAPT</b>	: Not relevant/applicable due to nature of the product.
<b>Heat of reaction</b>	: Not relevant/applicable due to nature of the product.
<b>Heat of combustion</b>	: Not relevant/applicable due to nature of the product.
<b>Flow time (ISO 2431)</b>	: Not relevant/applicable due to nature of the product.
<b>Molecular weight</b>	: Not relevant/applicable due to nature of the product.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: No specific data.
<b>10.5 Incompatible materials</b>	: No specific data.
<b>10.6 Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>EPO Reagent Wedge for IMMULITE®</b> zinc chloride	LD50 Oral	Rat	350 mg/kg	-
<b>EPO Adjustor for IMMULITE®</b> sodium azide	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -

**Conclusion/Summary** : EPO Reagent Wedge for IMMULITE® Not available.  
EPO Adjustor for IMMULITE® Not available.

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>EPO Reagent Wedge for IMMULITE®</b> 3(2H)-Isothiazolone, 2-methyl-zinc chloride	100 350	300 N/A	N/A N/A	0.5 N/A	N/A N/A
<b>EPO Adjustor for IMMULITE®</b> EPO Adjustor for IMMULITE® sodium azide	1812.1 27	1342.3 20	N/A N/A	N/A N/A	N/A N/A

#### Irritation/Corrosion

IMMULITE® 2000 EPO MONO-MONO KIT

## SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
EPO Reagent Wedge for IMMULITE® aminocaproic acid	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
zinc chloride	Skin - Severe irritant	Rabbit	-	120 hours 1 %	-

### Conclusion/Summary

<b>Skin</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.
<b>Eyes</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.
<b>Respiratory</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.

### Sensitisation

#### Conclusion/Summary

<b>Skin</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.
<b>Respiratory</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.

### Mutagenicity

<b>Conclusion/Summary</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.
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### Carcinogenicity

<b>Conclusion/Summary</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.
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### Reproductive toxicity

<b>Conclusion/Summary</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.
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### Teratogenicity

<b>Conclusion/Summary</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.
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### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
EPO Reagent Wedge for IMMULITE® zinc chloride	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

<b>Information on likely routes of exposure</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.
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### Potential acute health effects

<b>Eye contact</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	No known significant effects or critical hazards. No known significant effects or critical hazards.
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## SECTION 11: Toxicological information

<b>Inhalation</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	May cause an allergic skin reaction. Harmful in contact with skin.
<b>Ingestion</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	No known significant effects or critical hazards. Harmful if swallowed.

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

<b>Eye contact</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	No specific data. No specific data.
<b>Inhalation</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	No specific data. No specific data.
<b>Skin contact</b>	: EPO Reagent Wedge for IMMULITE®  EPO Adjustor for IMMULITE®	Adverse symptoms may include the following: irritation redness No specific data.
<b>Ingestion</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	No specific data. No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

<b>Potential immediate effects</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.
<b>Potential delayed effects</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.

#### Long term exposure

<b>Potential immediate effects</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.
<b>Potential delayed effects</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.

#### Potential chronic health effects

Not available.

<b>Conclusion/Summary</b>	: EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not available. Not available.
<b>General</b>	: EPO Reagent Wedge for IMMULITE®  EPO Adjustor for IMMULITE®	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: EPO Reagent Wedge for IMMULITE®  EPO Adjustor for IMMULITE®	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: EPO Reagent Wedge for IMMULITE®  EPO Adjustor for IMMULITE®	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: EPO Reagent Wedge for IMMULITE®  EPO Adjustor for IMMULITE®	No known significant effects or critical hazards. No known significant effects or critical hazards.

IMMULITE® 2000 EPO MONO-MONO KIT

## SECTION 11: Toxicological information

**Interactive effects** : EPO Reagent Wedge for IMMULITE® Not available.  
EPO Adjustor for IMMULITE® Not available.

### Toxicokinetics

**Absorption** : EPO Reagent Wedge for IMMULITE® Not available.  
EPO Adjustor for IMMULITE® Not available.

**Distribution** : EPO Reagent Wedge for IMMULITE® Not available.  
EPO Adjustor for IMMULITE® Not available.

**Metabolism** : EPO Reagent Wedge for IMMULITE® Not available.  
EPO Adjustor for IMMULITE® Not available.

**Elimination** : EPO Reagent Wedge for IMMULITE® Not available.  
EPO Adjustor for IMMULITE® Not available.

**Other information** : EPO Reagent Wedge for IMMULITE® Not available.  
EPO Adjustor for IMMULITE® Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>EPO Reagent Wedge for IMMULITE®</b> 3(2H)-Isothiazolone, 2-methyl-  zinc chloride	Acute EC50 0.18 ppm Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 0.07 ppm Fresh water	Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss	96 hours
	Acute EC50 34 µg/l Fresh water	Algae - Green algae - Chlorella vulgaris - Exponential growth phase	72 hours
	Acute EC50 26 µg/l Marine water	Algae - Diatom - Navicula incerta	96 hours
	Acute EC50 1.8 mg/l Fresh water	Aquatic plants - Lesser Duckweed - Lemna aequinoctialis	96 hours
	Acute EC50 100 µg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 49.99 µg/l Fresh water	Crustaceans - Water flea - Moina irrasa - Neonate	48 hours
	Acute LC50 0.027 mg/l Marine water	Fish - Sand Flounder - Limanda punctatissima - Pre-larvae	96 hours
	Chronic NOEC 20 µg/l Marine water	Algae - Green algae - Chlorella sp. - Exponential growth phase	72 hours
	Chronic NOEC 1000 µg/l Fresh water	Crustaceans - Red swamp crayfish - Procambarus clarkii - Intermolt	21 days
	Chronic NOEC 80 µg/l Fresh water	Daphnia - Water flea - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	21 days
	Chronic NOEC 31.5 µg/l Fresh water	Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss	30 days
	<b>EPO Adjustor for IMMULITE®</b> sodium azide	Acute EC50 9200 µg/l Marine water	Algae - Giant kelp - Macrocystis pyrifera
Acute EC50 6.4 mg/l Fresh water		Crustaceans - Water flea - Simocephalus serrulatus - Larvae	48 hours
Acute EC50 4.2 mg/l Fresh water		Daphnia - Water flea - Daphnia pulex - Larvae	48 hours
Acute LC50 0.68 mg/l Fresh water		Fish - Bluegill - Lepomis macrochirus	96 hours

IMMULITE® 2000 EPO MONO-MONO KIT

## SECTION 12: Ecological information

	Chronic NOEC 5600 µg/l Marine water	Algae - Giant kelp - Macrocystis pyrifera	96 hours
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**Conclusion/Summary** : EPO Reagent Wedge for IMMULITE® Not available.  
EPO Adjustor for IMMULITE® Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : EPO Reagent Wedge for IMMULITE® Not available.  
EPO Adjustor for IMMULITE® Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
EPO Reagent Wedge for IMMULITE® aminocaproic acid	-2.95	-	low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : EPO Reagent Wedge for IMMULITE® Not available.  
EPO Adjustor for IMMULITE® Not available.

**Mobility** : EPO Reagent Wedge for IMMULITE® Not available.  
EPO Adjustor for IMMULITE® Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised 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.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste. Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

### ADR/RID

<b>14.1 UN number</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not regulated. Not regulated.
<b>14.2 UN proper shipping name</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -
<b>14.3 Transport hazard class(es)</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -
<b>14.4 Packing group</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -
<b>14.5 Environmental hazards</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	No. No.
<b>Additional information</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -

### ADN

<b>14.1 UN number</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not regulated. Not regulated.
<b>14.2 UN proper shipping name</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -
<b>14.3 Transport hazard class(es)</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -
<b>14.4 Packing group</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -
<b>14.5 Environmental hazards</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	No. No.
<b>Additional information</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -

### IMDG

<b>14.1 UN number</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not regulated. Not regulated.
<b>14.2 UN proper shipping name</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -
<b>14.3 Transport hazard class(es)</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -
<b>14.4 Packing group</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -
<b>14.5 Environmental hazards</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	No. No.
<b>Additional information</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -

### IATA

IMMULITE® 2000 EPO MONO-MONO KIT

## SECTION 14: Transport information

<b>14.1 UN number</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	Not regulated. Not regulated.
<b>14.2 UN proper shipping name</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -
<b>14.3 Transport hazard class(es)</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -
<b>14.4 Packing group</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -
<b>14.5 Environmental hazards</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	No. No.
<b>Additional information</b>	EPO Reagent Wedge for IMMULITE® EPO Adjustor for IMMULITE®	- -
<b>14.6 Special precautions for user</b>	EPO Reagent Wedge for IMMULITE®  EPO Adjustor for IMMULITE®	<b>Transport within user's premises:</b> 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.  <b>Transport within user's premises:</b> 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.
<b>14.7 Transport in bulk according to IMO instruments</b>	Not applicable.	

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### UK (GB) /REACH

#### Annex XIV - List of substances subject to authorisation

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

None of the components are listed.

##### Ozone depleting substances

Not listed.

##### Prior Informed Consent (PIC)

Not listed.

##### Persistent Organic Pollutants

Not listed.

IMMULITE® 2000 EPO MONO-MONO KIT

## SECTION 15: Regulatory information

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : EPO Reagent Wedge for IMMULITE® Not applicable.  
EPO Adjustor for IMMULITE® Not applicable.

### Seveso Directive

This product is not controlled under the Seveso Directive.

### National regulations

#### EU regulations

**Industrial emissions (integrated pollution prevention and control) - Air** : EPO Reagent Wedge for IMMULITE® Not listed  
EPO Adjustor for IMMULITE® Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : EPO Reagent Wedge for IMMULITE® Not listed  
EPO Adjustor for IMMULITE® Not listed

### International regulations

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

**15.2 Chemical safety assessment** : Not applicable.

## SECTION 16: Other information

🔍 Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = GB CLP-specific Hazard statement  
N/A = Not available  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
SGG = Segregation Group  
vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

IMMULITE® 2000 EPO MONO-MONO KIT

## SECTION 16: Other information

Classification	Justification
<b>EPO Reagent Wedge for IMMULITE®</b> Skin Sens. 1, H317	Calculation method
<b>EPO Adjustor for IMMULITE®</b> Acute Tox. 4, H302 Acute Tox. 4, H312 Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method

### Full text of abbreviated H statements

<b>EPO Reagent Wedge for IMMULITE®</b>	
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
<b>EPO Adjustor for IMMULITE®</b>	
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gas.

### Full text of classifications

<b>EPO Reagent Wedge for IMMULITE®</b>	
Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<b>EPO Adjustor for IMMULITE®</b>	
Acute Tox. 1	ACUTE TOXICITY - Category 1
Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

IMMULITE® 2000 EPO MONO-MONO KIT

## SECTION 16: Other information

**Date of printing** : 12/13/2022  
**Date of issue/ Date of revision** : 12/13/2022  
**Date of previous issue** : No previous validation  
**Version** : 1

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