

SAFETY DATA SHEET

IMMULITE® 2000 C-Peptide

SDS no.:

L2KPEP2_6

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

1.1 Product identifier

Product name : IMMULITE® 2000 C-Peptide
Product code : L2KPEP2/6, 10381440, 10381450

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

Identified uses C-Peptide Reagent Wedge Diagnostic agents.
 C-Peptide Adjustors 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 : C-Peptide Reagent Wedge Mixture
 C-Peptide Adjustors Mixture

Classification according to UK CLP/GHS

C-Peptide Reagent Wedge

Skin Sens. 1, H317

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 : C-Peptide Reagent Wedge Warning
 C-Peptide Adjustors No signal word.

Hazard statements : C-Peptide Reagent Wedge H317 - May cause an allergic skin reaction.
 C-Peptide Adjustors No known significant effects or critical hazards.

Precautionary statements

SECTION 2: Hazards identification

Prevention	: C-Peptide Reagent Wedge C-Peptide Adjustors	P280 - Wear protective gloves/protective clothing/eye protection/face protection. Not applicable.
Response	: C-Peptide Reagent Wedge	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. Not applicable.
Storage	: C-Peptide Reagent Wedge C-Peptide Adjustors	Not applicable. Not applicable.
Disposal	: C-Peptide Reagent Wedge C-Peptide Adjustors	Not applicable. Not applicable.
Supplemental label elements	: C-Peptide Reagent Wedge C-Peptide Adjustors	Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: C-Peptide Reagent Wedge C-Peptide Adjustors	Not applicable. Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: C-Peptide Reagent Wedge C-Peptide Adjustors	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.
Other hazards which do not result in classification	: C-Peptide Reagent Wedge C-Peptide Adjustors	None known. None known.
Additional information	: Potentially biohazardous material. Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.	

SECTION 3: Composition/information on ingredients

3.1 Substances : C-Peptide Reagent Wedge Mixture
C-Peptide Adjustors Mixture

Product/ingredient name	Identifiers	%	Classification	Type
C-Peptide Reagent Wedge 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	[1] [2]

IMMULITE® 2000 C-Peptide

SECTION 3: Composition/information on ingredients

			Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) See Section 16 for the full text of the H statements declared above.
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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>Eye contact</p>	<p>: C-Peptide Reagent Wedge</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>C-Peptide Adjustors</p>	<p>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</p>
<p>Inhalation</p>	<p>: C-Peptide Reagent Wedge</p>	<p>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.</p>
	<p>C-Peptide Adjustors</p>	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</p>
<p>Skin contact</p>	<p>: C-Peptide Reagent Wedge</p>	<p>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</p>

SECTION 4: First aid measures

	C-Peptide Adjustors	shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: C-Peptide Reagent Wedge	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.
	C-Peptide Adjustors	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: C-Peptide Reagent Wedge	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.
	C-Peptide Adjustors	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: C-Peptide Reagent Wedge C-Peptide Adjustors	No specific data. No specific data.
Inhalation	: C-Peptide Reagent Wedge C-Peptide Adjustors	No specific data. No specific data.
Skin contact	: C-Peptide Reagent Wedge	Adverse symptoms may include the following: irritation redness
	C-Peptide Adjustors	No specific data.
Ingestion	: C-Peptide Reagent Wedge C-Peptide Adjustors	No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

IMMULITE® 2000 C-Peptide

SECTION 4: First aid measures

Notes to physician	: C-Peptide Reagent Wedge C-Peptide Adjustors	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. 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.
Specific treatments	: C-Peptide Reagent Wedge C-Peptide Adjustors C-Peptide Reagent Wedge C-Peptide Adjustors	No specific treatment. No specific treatment. Not available. Not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

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

Hazardous combustion products : 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

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

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).

6.3 Methods and material for containment and cleaning up

IMMULITE® 2000 C-Peptide

SECTION 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.
- 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. 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.
- 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
C-Peptide Reagent Wedge zinc chloride	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 2 mg/m ³ 15 minutes. Form: Fume TWA: 1 mg/m ³ 8 hours. Form: Fume

SECTION 8: Exposure controls/personal protection

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
C-Peptide Reagent Wedge 3(2H)-Isothiazolone, 2-methyl- zinc chloride	DNEL	Long term Inhalation	0.021 mg/ m ³	General population	Local
	DNEL	Long term Inhalation	0.021 mg/ m ³	Workers	Local
	DNEL	Long term Oral	0.027 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	0.043 mg/ m ³	General population	Local
	DNEL	Short term Inhalation	0.043 mg/ m ³	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 ³	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 ³	General population	Systemic	

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.

SECTION 8: Exposure controls/personal protection

- 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** : C-Peptide Reagent Wedge Liquid.
C-Peptide Adjustors Solid.
- Colour** : C-Peptide Reagent Wedge Colourless.
C-Peptide Adjustors Off-white.
- Odour** : C-Peptide Reagent Wedge Odourless.
C-Peptide Adjustors Bland.
- Odour threshold** : Not relevant/applicable due to nature of the product.
- Melting point/freezing point** : Not relevant/applicable due to nature of the product.
- Softening point** : Not relevant/applicable due to nature of the product.
- Sublimation temperature** : Not relevant/applicable due to nature of the product.
- Initial boiling point and boiling range** : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.
- Flammability (solid, gas)** : C-Peptide Reagent Wedge Not relevant/applicable due to nature of the product.
C-Peptide Adjustors Not relevant/applicable due to nature of the product.
- Upper/lower flammability or explosive limits** : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not applicable.
- Flash point** : C-Peptide Reagent Wedge [Product does not sustain combustion.]
C-Peptide Adjustors [Product does not sustain combustion.]

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
C-Peptide Reagent Wedge						
Oxirane, 2-methyl-, polymer with oxirane	252	485.6				

Auto-ignition temperature :

Ingredient name	°C	°F	Method
C-Peptide Reagent Wedge			
magnesium di(acetate)	310	590	EU A.16

- Decomposition temperature** : Not relevant/applicable due to nature of the product.
- pH** : C-Peptide Reagent Wedge 7.95 to 8.05
C-Peptide Adjustors Not applicable.
- Viscosity** : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not applicable.

IMMULITE® 2000 C-Peptide

SECTION 9: Physical and chemical properties

Solubility(ies) :
Not available.

Solubility in water : Not relevant/applicable due to nature of the product.

Miscible with water : Not relevant/applicable due to nature of the product.

Partition coefficient: n-octanol/ water : Not relevant/applicable due to nature of the product.

Vapour pressure :

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
C-Peptide Reagent Wedge water	23.8	3.2				

Evaporation rate : Not relevant/applicable due to nature of the product.

Relative density : C-Peptide Reagent Wedge 1
C-Peptide Adjustors >1

Density : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Vapour density : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not applicable.

Explosive properties : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Oxidising properties : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

Fire point : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Burning time : Not relevant/applicable due to nature of the product.

Fundamental burning velocity : Not relevant/applicable due to nature of the product.

Burning rate : Not relevant/applicable due to nature of the product.

SADT : Not relevant/applicable due to nature of the product.

SAPT : Not relevant/applicable due to nature of the product.

Heat of reaction : Not relevant/applicable due to nature of the product.

Heat of combustion : Not relevant/applicable due to nature of the product.

Flow time (ISO 2431) : Not relevant/applicable due to nature of the product.

Molecular weight : Not relevant/applicable due to nature of the product.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

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

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

IMMULITE® 2000 C-Peptide

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products : 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
C-Peptide Reagent Wedge zinc chloride	LD50 Oral	Rat	350 mg/kg	-

Conclusion/Summary : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors 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)
C-Peptide Reagent Wedge 3(2H)-Isothiazolone, 2-methyl- zinc chloride	100 350	300 N/A	N/A N/A	0.5 N/A	N/A N/A
C-Peptide Adjustors C-Peptide Adjustors	18620.7	13793.1	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
C-Peptide Reagent Wedge zinc chloride	Skin - Severe irritant	Rabbit	-	120 hours 1 %	-

Conclusion/Summary

Skin : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Eyes : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Respiratory : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Sensitisation**Conclusion/Summary**

Skin : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Respiratory : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Mutagenicity**Conclusion/Summary**

: C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Carcinogenicity**Conclusion/Summary**

: C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Reproductive toxicity**Conclusion/Summary**

: C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Teratogenicity**Conclusion/Summary**

: C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Specific target organ toxicity (single exposure)

IMMULITE® 2000 C-Peptide

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
C-Peptide Reagent Wedge zinc chloride	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Potential acute health effects

Eye contact : C-Peptide Reagent Wedge No known significant effects or critical hazards.
C-Peptide Adjustors No known significant effects or critical hazards.

Inhalation : C-Peptide Reagent Wedge No known significant effects or critical hazards.
C-Peptide Adjustors No known significant effects or critical hazards.

Skin contact : C-Peptide Reagent Wedge May cause an allergic skin reaction.
C-Peptide Adjustors No known significant effects or critical hazards.

Ingestion : C-Peptide Reagent Wedge No known significant effects or critical hazards.
C-Peptide Adjustors No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : C-Peptide Reagent Wedge No specific data.
C-Peptide Adjustors No specific data.

Inhalation : C-Peptide Reagent Wedge No specific data.
C-Peptide Adjustors No specific data.

Skin contact : C-Peptide Reagent Wedge Adverse symptoms may include the following:
irritation
redness
C-Peptide Adjustors No specific data.

Ingestion : C-Peptide Reagent Wedge No specific data.
C-Peptide Adjustors No specific data.

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

Short term exposure

Potential immediate effects : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Potential delayed effects : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Long term exposure

Potential immediate effects : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Potential delayed effects : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Potential chronic health effects

IMMULITE® 2000 C-Peptide

SECTION 11: Toxicological information

Not available.

Conclusion/Summary	: C-Peptide Reagent Wedge C-Peptide Adjustors	Not available. Not available.
General	: C-Peptide Reagent Wedge C-Peptide Adjustors	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. No known significant effects or critical hazards.
Carcinogenicity	: C-Peptide Reagent Wedge C-Peptide Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: C-Peptide Reagent Wedge C-Peptide Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: C-Peptide Reagent Wedge C-Peptide Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards.
Interactive effects	: C-Peptide Reagent Wedge C-Peptide Adjustors	Not available. Not available.
<u>Toxicokinetics</u>		
Absorption	: C-Peptide Reagent Wedge C-Peptide Adjustors	Not available. Not available.
Distribution	: C-Peptide Reagent Wedge C-Peptide Adjustors	Not available. Not available.
Metabolism	: C-Peptide Reagent Wedge C-Peptide Adjustors	Not available. Not available.
Elimination	: C-Peptide Reagent Wedge C-Peptide Adjustors	Not available. Not available.
Other information	: C-Peptide Reagent Wedge C-Peptide Adjustors	Not available. Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
C-Peptide Reagent Wedge 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

IMMULITE® 2000 C-Peptide

SECTION 12: Ecological information

	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

Conclusion/Summary : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

12.2 Persistence and degradability

Conclusion/Summary : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors Not available.

Mobility : C-Peptide Reagent Wedge Not available.
C-Peptide Adjustors 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 spill material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information**ADR/RID**

14.1 UN number	C-Peptide Reagent Wedge C-Peptide Adjustors	Not regulated. Not regulated.
14.2 UN proper shipping name	C-Peptide Reagent Wedge C-Peptide Adjustors	- -
14.3 Transport hazard class(es)	C-Peptide Reagent Wedge C-Peptide Adjustors	- -
14.4 Packing group	C-Peptide Reagent Wedge C-Peptide Adjustors	- -
14.5 Environmental hazards	C-Peptide Reagent Wedge C-Peptide Adjustors	No. No.
Additional information	C-Peptide Reagent Wedge C-Peptide Adjustors	- -

ADN

14.1 UN number	C-Peptide Reagent Wedge C-Peptide Adjustors	Not regulated. Not regulated.
14.2 UN proper shipping name	C-Peptide Reagent Wedge C-Peptide Adjustors	- -
14.3 Transport hazard class(es)	C-Peptide Reagent Wedge C-Peptide Adjustors	- -
14.4 Packing group	C-Peptide Reagent Wedge C-Peptide Adjustors	- -
14.5 Environmental hazards	C-Peptide Reagent Wedge C-Peptide Adjustors	No. No.
Additional information	C-Peptide Reagent Wedge C-Peptide Adjustors	- -

IMDG

14.1 UN number	C-Peptide Reagent Wedge C-Peptide Adjustors	Not regulated. Not regulated.
14.2 UN proper shipping name	C-Peptide Reagent Wedge C-Peptide Adjustors	- -
14.3 Transport hazard class(es)	C-Peptide Reagent Wedge C-Peptide Adjustors	- -
14.4 Packing group	C-Peptide Reagent Wedge C-Peptide Adjustors	- -
14.5 Environmental hazards	C-Peptide Reagent Wedge C-Peptide Adjustors	No. No.
Additional information	C-Peptide Reagent Wedge C-Peptide Adjustors	- -

IATA

IMMULITE® 2000 C-Peptide

SECTION 14: Transport information

14.1 UN number	C-Peptide Reagent Wedge C-Peptide Adjustors	Not regulated. Not regulated.
14.2 UN proper shipping name	C-Peptide Reagent Wedge C-Peptide Adjustors	- -
14.3 Transport hazard class(es)	C-Peptide Reagent Wedge C-Peptide Adjustors	- -
14.4 Packing group	C-Peptide Reagent Wedge C-Peptide Adjustors	- -
14.5 Environmental hazards	C-Peptide Reagent Wedge C-Peptide Adjustors	No. No.
Additional information	C-Peptide Reagent Wedge C-Peptide Adjustors	- -
14.6 Special precautions for user	C-Peptide Reagent Wedge C-Peptide Adjustors	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk according to IMO instruments	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 C-Peptide

SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : C-Peptide Reagent Wedge
C-Peptide Adjustors

Not applicable.
Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : C-Peptide Reagent Wedge
C-Peptide Adjustors

Not listed
Not listed

Industrial emissions (integrated pollution prevention and control) - Water : C-Peptide Reagent Wedge
C-Peptide Adjustors

Not listed
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

Classification	Justification
C-Peptide Reagent Wedge Skin Sens. 1, H317	Calculation method

Full text of abbreviated H statements

IMMULITE® 2000 C-Peptide

SECTION 16: Other information

C-Peptide

Reagent

Wedge

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.
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.

Full text of classifications

C-Peptide Reagent

Wedge

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
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

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Date of previous issue : No previous validation

Version : 1

Notice to reader

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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.