

## SAFETY DATA SHEET

According to Regulations  
(EC) No. 1272/2008 and (EU) No. 453/2010

# CMV Brite™ Kit

## 1. Identification

### 1.1 Product Identifier

<b>Product Name:</b>	CMV Brite™ Kit
<b>Product Number:</b>	VIR-CMV 100
<b>EDMA Code:</b>	15 04 02 040
<b>REACH No.:</b>	A registration number is not available for this mixture as the mixture or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
<b>CAS No.:</b>	Ammonium Chloride CAS-No. 12125-02-9 Dextran CAS-No. 9004-54-0 Formaldehyde CAS-No. 50-00-0 Sodium Azide CAS-No. 26628-22-8 Evans Blue CAS-No. 314-13-6 Hepes CAS-No. 7365-45-9 Igepal CA-630 CAS-No. 9002-93-1 Sucrose CAS-No. 57-50-1

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

The CMV Brite™ Kit is available as a 100 tests kit. The product is composed of a set of reagents, i.e. CMV Brite™ Reagent A, B, C, D, E, F, G, and CMV Brite™ Control Slides. All reagents are liquid containing the ingredients as presented above. The CMV Brite™ Control Slides are composed of glass microscope slides containing fixed cells, each separately packed in a pouch containing desiccant. This product is intended for *In vitro* diagnostic use only. Not for use in humans. Not for *in vivo* use.

### 1.3 Details of the supplier of the safety data sheet

<b>Company:</b>	IQ PRODUCTS BV
<b>Address:</b>	Rozenburglaan 13a 9727 DL GRONINGEN THE NETHERLANDS
<b>Telephone:</b>	+31-50-5757000
<b>Fax:</b>	+31-50-5757002
<b>E-mail address:</b>	marketing@iqproducts.nl
<b>Website:</b>	www.iqproducts.nl

### 1.4 Emergency telephone numbers

Emergency Phone # 112

## 2. Hazard Identification

### 2.1 Classification of the substance or mixture





There are no reported further health hazards for the product in the current formulation and applications. Only Reagent B and C of the product composition does contain a dangerous substance in amounts that need to be hazard labeled according to EC Regulation No. 1272/2008. All other components of the product contain substances that may be hazardous when available in significant amounts and should be treated as potentially biohazardous.

**Kit Components:**

Reagent A: Leukocytes Separation solution;  
Reagent B: Erythrocyte Lysing solution;  
Reagent C: Fixative solution;  
Reagent D: Permeabilization solution;  
Reagent E: Washing Solution;  
Reagent F: Monoclonal Antibody;  
Reagent G: FITC conjugate;

Control microscope slides.

**2.2 Label elements**

**Hazard Pictograms (GHS-US):** Reagent B:   
Reagent C:     
**Signal Word (GHS-US):** Reagent B: WARNING  
Reagent C: DANGER

**Hazard Statements (GHS\_US):****Reagent B:**

H302 Harmful if swallowed; H319 Causes serious eye irritation.

**Reagent C:**

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled;  
H314 Causes severe skin burns and eye damage;  
H317 May cause an allergic skin reaction;  
H335 May cause respiratory irritation;  
H351 Suspected of causing cancer;  
H370 Causes damage to organs.

**Precautionary Statements (GHS-US):****Reagent B:**

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**Reagent C:**

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray; P280 Wear protective gloves/ protective clothing/ eye protection/Face protection;  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician;  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing;  
P310 Immediately call a POISON CENTER or doctor/ physician.

**General**

P270-Do not eat, drink or smoke when using this product;  
P262-Do not get in eyes, on skin, or on clothing;  
P337+P313- If eye irritation persists: Get medical advice/attention;  
P302+361+352- IF ON SKIN: Take off immediately all contaminated clothing. Wash with plenty of soap and water;  
P501- Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations;  
P280 – Wear protective gloves/protective clothing/eye protection/face protection.

**2.3 Other Hazards**

All reagents should be handled in accordance with good laboratory practices using appropriate precautions. In addition, handle all patient samples and control slides with appropriate precautions as described in "Biosafety in Microbial and Biomedical Laboratories", 2nd ed., 1988. HHS Publication No. (CDC) 88-8395, Centers for Disease Control.

There are no reported further health hazards for the product in the current formulation and applications. The product contains substances that may be hazardous when available in significant amounts and should be treated as potentially biohazardous. No toxic effects are to be expected when the product is handled appropriately. The product may enter the body through inhalation, ingestion, skin contact and eye contact.

Sodium azide forms explosive compounds with heavy metals. Components of this product contain azide < 0,1% (w/v). Repeated contact of these components with lead and copper, commonly found in plumbing drains, should be avoided as this may result in the buildup of shock-sensitive compound. On disposal, flush with large amounts of water to prevent azide build-up.

### 3. Composition/Information on ingredients

#### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

##### Composition of the product:

100 ml	<b>Reagent A</b> , Leukocytes Separation Solution. Dextran in PBS containing < 0.1 % sodium azide (Ready to use).
30 ml	<b>Reagent B</b> , Erythrocyte lysing solution. (Ammonium chloride solution, sodium azide < 0,1%). Concentrate: dilute 1:10 with demineralized water ⚠ WARNING
290 ml	<b>Reagent C</b> , Fixative solution. (Formaldehyde in PBS, sodium azide < 0,1% ). Concentrate: dilute 1:5 with PBS ⚠ DANGER
290 ml	<b>Reagent D</b> , Permeabilization solution. (Igepal Ca-630, newborn calf serum in PBS, sodium azide < 0,1%), Concentrate: dilute 1: 5 with PBS
15 ml	<b>Reagent E</b> , Washing Solution. (Newborn Calf Serum in PBS, containing < 0.1% sodium azide). Concentrate: dilute 1:200 with PBS.
5.9 ml	<b>Reagent F</b> , Monoclonal antibody (mouse), Mix of C10/C11 (IgG <sub>1</sub> /IgG <sub>1</sub> ) against lower matrix protein pp65. sodium azide < 0,1% (Ready to use)
5.9 ml	<b>Reagent G</b> , FITC-conjugated sheep anti-mouse-immunoglobulins with Evans Blue, sodium azide < 0,1%. (Ready to use)
20 x 1	<b>Control Slide</b> , CMV antigenemia control microscope slides. Control slide in a sealed pouch with desiccant. (Ready to use)

##### Information on ingredients:

Ammonium Chloride	CAS-No. 12125-02-9	< 1.0% (w/v)
Dextran	CAS-No. 9004-54-0	< 0.5% (w/v)
Formaldehyde	CAS-No. 50-00-0	< 9.3% (v/v)
Sodium Azide	CAS-No. 26628-22-8	< 0.1% (w/v)
Evans Blue	CAS-No. 314-13-6	< 0.02% (v/v)
Hepes	CAS-No. 7365-45-9	< 0.6% (w/v)
Igepal CA-630	CAS-No. 9002-93-1	< 2.5% (v/v)
Sucrose	CAS-No. 57-50-1	< 50.0% (w/v)

### 4. First-aid Measures

#### 4.1 Description of first aid measures

Inhalation:	Expose to fresh air. If breathing problems persist seek medical advice.
Skin Contact:	Wash with plenty of water for 15 minutes. Remove contaminated clothing. Seek medical advice.
Eye Contact:	Rinse with water for 15 minutes and seek medical advice.
Ingestion:	Rinse mouth with water for 15 minutes and seek medical advice.

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

Not available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that over exposure to materials other than this product may have occurred. Also see above under section 4.1.

### 5. Fire-fighting Measures

#### 5.1 Extinguishing media

Extinguishing Media:	Use carbon dioxide, dry chemical extinguisher or water.
Protective Equipment:	An approved self-contained breathing apparatus and protective clothing should be used.
Special Fire and Explosion Hazards:	No special hazards determined.
Hazard Combustion Products:	Due to the composition and volume of this product, combustion products generated from it are not expected to present a significant hazard.

## 5.2 Special hazards arising from the substance or mixture

No special hazards determined.

## 5.3 Advice for firefighters

This product does not cause special protective equipment to be required. In the event of a large laboratory fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire-exposed containers cool. Poisonous gases may be produced in fires.

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## 6. Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use universal precautions, appropriate personal protective equipment and standard safe laboratory practices to clean up spilled substance promptly. Absorb spill onto an appropriate material. Avoid contact with eyes, skin and clothing. Wear safety glasses and protective gloves.

### 6.2 Environmental Precautions

No known environmental precautions.

### 6.3 Methods and Material for Containment and Cleaning Up

Soak up spills with an appropriate absorbent material. Consult local, state, or federal regulations for proper disposal.

### 6.4 Reference to Other Sections

Follow protective measures provided in Sections 7 and 8.

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## 7. Handling and storage

### 7.1 Precautions for safe handling

All reagents should be handled in accordance with good laboratory practices using appropriate precautions:

- No eating, drinking, or smoking in work areas
- Wash hands after use
- Remove contaminated clothing and protective equipment before leaving work area
- Avoid inhaling, ingesting, and contact with eyes and skin.

In addition, this product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

All components of the CMV Brite™ Turbo kit are stable if stored according to appropriate conditions until the expiration date as indicated on the label and on each component provided. Storage conditions recommended: 2 to 8 °C. Protect the kit from temperatures above 30°C and from prolonged time at room temperature. Do not freeze. Avoid direct sunlight.

### 7.3 Specific End Use(s)

The intended use is mentioned in section 1.2 no other specific uses are stipulated.

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## 8. Exposure controls/personal protection

### 8.1 Control parameters

The product does not contain any materials that need to be monitored at the workplace.

### 8.2 Exposure controls

Universal precautions should be followed when using this product.

Wear appropriate personal protective equipment and follow safe laboratory practices.



Pictograms:

Respiratory: None required when product is used as recommended

Hands: Wear protective gloves according to EN 166

Eye / Face: Wear safety glasses according to EN 374

Skin / Body: None required

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

	Reagent A	Reagent B	Reagent C	Reagent D	Reagent E	Reagent F	Reagent G	Control slides
Appearance	Liquid, clear, colorless	Liquid, clear, colorless	Liquid, clear, colorless	Liquid, clear, light yellow	Liquid, cloudy, light yellow	Liquid, clear, orange/salmon pink	Liquid, clear, light blue	Glass microscope slides
Odour	No data available	No data available	No data available	No data available	No data available	No data available	No data available	No data available
Odour Threshold	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
pH	7.20 - 7.60	7.40 - 7.90	6.70 - 7.20	6.85 - 7.20	6.85 - 7.20	No data available	No data available	Not applicable
Melting point/freezing point	No data available	No data available	No data available	No data available	No data available	No data available	No data available	No data available
Critical boiling point and boiling range	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Flash point	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Evaporation rate	No data available	No data available	No data available	No data available	No data available	No data available	No data available	No data available
Flammability	No data available	No data available	No data available	No data available	No data available	No data available	No data available	No data available
Upper/lower Flammability or explosive limit	No data available	No data available	No data available	No data available	No data available	No data available	No data available	No data available
Vapour pressure	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Vapour density	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Relative density	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Water solubility	Fully miscible in water	Fully miscible in water	Fully miscible in water	Fully miscible in water	Fully miscible in water	Fully miscible in water	Fully miscible in water	Not miscible in water
Partition coefficient: n-octanol/water	No data available	No data available	No data available	No data available	No data available	No data available	No data available	No data available
Auto-ignition temperature	Not self-igniting data available	Not self-igniting data available	Not self-igniting data available	Not self-igniting data available	Not self-igniting data available	Not self-igniting data available	Not self-igniting data available	Not self-igniting data available
Decomposition temperature	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Viscosity	No data available	No data available	No data available	No data available	No data available	No data available	No data available	No data available
Explosive properties	Product is not explosive	Product is not explosive	Product is not explosive	Product is not explosive	Product is not explosive	Product is not explosive	Product is not explosive	Product is not explosive
Oxidizing properties	Product is not oxidizing	Product is not oxidizing	Product is not oxidizing	Product is not oxidizing	Product is not oxidizing	Product is not oxidizing	Product is not oxidizing	Product is not oxidizing

### 9.2 Other information

No other information available.

## 10. Stability and Reactivity

### 10.1 Reactivity

No known reactivity.

### 10.2 Chemical Stability

The product is stable under ambient and storage and handling temperatures and under normal pressures.

### 10.3 Possibility of Hazardous Reactions

No hazardous reactions known when handled properly.

### 10.4 Conditions to Avoid

None identified.

### 10.5 Incompatible Materials

Metals and metallic compounds. Strong acids, strong oxidizing agents, powdered metals and reducing agents. Sodium azide forms explosive compounds with heavy metals. Components of this product contain concentration of azide < 0,1% (w/v) which with repeated contact with lead and copper commonly found in plumbing drains may result in the buildup of shock-sensitive compound. No hazardous incompatibilities identified.

### 10.6 Hazardous Decomposition Products

No hazardous decomposition products are known to be formed by this product.

## 11. Toxicological information

### 11.1 Information on toxicological effects

**Acute Toxicity:** No toxic effect known.

**Skin Corrosion/Irritation:** No irritant effect known.

**Serious Eye Damage/Irritation:** No irritant effect known.

**Respiratory or Skin Sensitization:** No sensitizing effect known.

**Germ cell mutagenicity:** No data available

**Carcinogenicity:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity:** No data available

**STOT-single exposure:** No data available

**STOT-repeated exposure:** No data available

**Aspiration Hazard:** Not Classified

**Toxicity on Repeated Exposure:** No toxic effect known.

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## **12. Ecological information**

### **12.1 Toxicity**

Undetermined.

### **12.2 Persistence and Degradability**

Undetermined.

### **12.3 Bioaccumulative Potential**

Undetermined.

### **12.4 Mobility in Soil**

Undetermined.

### **12.5 Results of PBT and vPvB Assessment**

Undetermined.

### **12.6 Other Adverse Effects**

No adverse effects are known when handled and disposed properly.

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## **13. Disposal considerations**

### **13.1 Waste treatment methods**

#### **Product:**

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

#### **Contaminated Packaging:**

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

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## **14. Transport information**

### **14.1 UN Number**

Not determined.

### **14.2 UN Proper Shipping Name**

Not determined.

### **14.3 Transport Hazard Class**

Not determined.

### **14.4 Packing Group**

Not classified.

### **14.5 Environmental Hazards**

Not classified.

### **14.6 Special Precautions for Users**

See subsections 6-8.

### **14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code**

This product is provided only in non-bulk containers.

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## **15. Regulatory information**

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

SARA Section 311/312 Hazard Classes are not applicable. This product is not classified. To the best of our knowledge, safety, health, and environmental regulations according to Regulation (EC) No. 1907/2006-REACH are not applicable.

### **15.2 Chemical safety assessment**

No chemical safety assessment has been carried out.

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## **16. Other information**

### **Changes to the previous version**

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910:1200 and complies with Regulation (EC) 453/2010.

### **Literature References**

Regulation (EC) No. 1272 / 2008  
Regulation (EU) No.453 / 2010  
Regulation (EC) No. 1907 / 2006

### **Disclaimer/Statement of Liability**

The information presented in this Safety Data Sheet is based on the present state of our knowledge. The product should be used according to the instructions provided by the manufacturer, see "Instructions for use" as presented in the package insert accompanying every product. We make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. The product should be used according to the instructions provided by the manufacturer, see "instructions for use" as presented in the Package Insert accompanying every product. *IQ Products BV* nor any distributors thereof shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the product.

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