

# MATERIAL SAFETY DATA SHEET

This MSDS has been written in accordance with the European Union Council Directive 98/24/EC of 7<sup>th</sup> April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual directive within the meaning of Article 16(1) of the Directive 89/391/EEC). Commission Directive 2001/58/EC of 27<sup>th</sup> July 2001 amending for the second time Directive 91/155/EEC defining and laying down the detailed arrangements for the system of information relating to dangerous preparations in implementation of Article 14 of the European Parliament Directive 1999/45/EC and relating to dangerous substances in Implementation of Article 27 of Council Directive 67/548/EEC (safety data sheets).

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

**Product Name:** Frozen live virus  
**Volume:** Various (typically <1mL per tube)  
**Contact:** Culture Collections  
Public Health England  
Porton Down, Wiltshire  
United Kingdom. SP4 0JG  
Telephone +44 (01980) 612512  
Out of hours + 44 (01980) 612100  
Email: [culturecollections@phe.gov.uk](mailto:culturecollections@phe.gov.uk) /  
[culturecollections.ncpv@phe.gov.uk](mailto:culturecollections.ncpv@phe.gov.uk)

## 2. Hazards identification

### Biological hazards

All live virus cultures provided by NCPV must be regarded as potentially pathogenic to humans and should be handled by, or under the supervision of, competent personnel who have received appropriate training in safe working practices in microbiology.

### Health Effects:

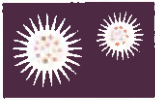
Eyes: Potentially infectious  
Skin: Potentially infectious  
Ingestion: Potentially infectious  
Inhalation: Potentially infectious

### Physical Hazards

It is recommended that persons handling this material should wear a laboratory overall, protective glasses and protective gloves. Shipping container contains dry ice so packages should be stored in well ventilated areas.

## 3. Composition information on ingredients

Plastic cryotube containing frozen live virus culture classified as Hazard Group 2 or 3 (Hazard Groups 2 and 3 as defined by the Advisory Committee on Dangerous Pathogens 2004 Approved List of Biological Agents <http://www.hse.gov.uk/pubns/misc208>).



A **Hazard Group 2 (HG2) organism** may cause human disease and may be a hazard to laboratory workers, but is unlikely to spread to the community, whereas a **Hazard Group 3 (HG3) organism** may cause human disease and be a hazard to laboratory workers as well as being likely to spread to the community.

#### 4. First aid measures

If accidental contact with material occurs laboratory staff must follow the local first aid procedures that are normally applied following exposure to organisms of ACDP Hazard Group 2.

Eyes: Irrigate with physiological saline or water. Seek medical advice immediately.

Skin: Wash thoroughly with soap and water. Seek medical advice immediately.

Ingestion: Seek medical advice immediately.

Inhalation: Seek medical advice immediately.

#### 5. Fire-fighting measures

Extinguisher medium: N/A

Unsuitable Extinguisher medium: N/A

Protective equipment for fire fighting: N/A

#### 6. Accidental release measures

Local risk assessments should be in place prior to purchasing and handling cryotubes containing NCPV viruses.

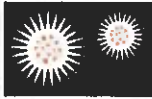
**Personal precautions:** Avoid direct contact with the material. Do not open the primary containers unless authorised to do so. Wear a laboratory coat, protective gloves and eye protection (safety glasses).

**Environmental precautions:** If spillage occurs allow aerosols to settle, place absorbent material over the spillage and pour disinfectant over spillage to saturate and leave for 30 minutes prior to cleaning and disposal. The preferred disinfectant is 10% v/v sodium hypochlorite (10,000 parts per million available chlorine). This should not be used in combination with other disinfectants. See your local risk assessment or contact the manufacturer of the disinfectant for additional information.

**Note: The use of additional personal protective equipment (PPE) may be necessary for some cleaning solutions.**

#### 7. Handling and storage

Shipping containers contain dry ice so packages should be stored in well ventilated areas.



Store frozen prior to opening the cryovial. Process in a laboratory environment which, as defined by national regulations or guidelines, is suitable for handling microorganisms of HG2 or HG3, as appropriate.

For HG3 viruses, primary packaging should be opened in a microbiological safety cabinet under conditions of ACDP (Biosafety) Containment Level 3.

All cultures provided by NCPV must be regarded as potentially pathogenic to humans and should be handled by, or under the supervision of, competent personnel who have received appropriate training in safe working practices in microbiology.

Hand-to-mouth contact should be avoided while working with the viruses and normal hand-washing procedures relating to the handling of virus cultures must also be observed with NCPV cultures.

Detailed discussions of laboratory safety procedures are provided in: "Laboratory Safety: Principles and Practice" (Fleming, et al, 1995), and in the U.S. Government Publication, "Bio-safety in Microbiological and Biomedical Laboratories" (CDC, 2009). This publication is available on the Center for Disease Control, Office of Health and Safety's web site: [www.cdc.gov/biosafety/publications/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm)

#### 8. Exposure controls/personal protection

Use good laboratory practice and wear appropriate laboratory coats, protective eye wear and gloves. Avoid aerosol production and inhalation.

Detailed discussions of laboratory safety procedures are provided by the UK Health and Safety Executive in the publication "Biological agents: Managing the risks in laboratories and healthcare premises".

Engineering control measures: As detailed by ACDP for the relevant containment for handling this virus

Respiratory protection: Avoid aerosol production and inhalation.

Hand Protection: wear protective gloves at all times.

Eye protection: wear safety glasses at all times.

#### 9. Physical and chemical properties

Appearance:	Coloured liquid (typically pink or yellow).
Solid/liquid/gas:	Frozen liquid.
Additional Components:	Cell culture media
Other Properties:	None

#### 10. Stability and reactivity

Reactivity data: Not known.

Conditions to avoid: Exposure to direct heat.

**Hazardous decomposition products: Dry ice will sublime to gaseous carbon dioxide.**



#### 11. Toxicological information

This material is considered both infection and replication competent and therefore represent a hazard to human health. Contents must be manipulated inside a suitable laboratory according to local risk assessment.

#### 12. Ecological information

Mobility: N/A  
Persistence / degradability: N/A  
Bioaccumulation: N/A  
Ecotoxicity: N/A

#### 13. Disposal considerations

Disinfection with 10% v/v sodium hypochlorite is recommended prior to disposal. Follow all national, regional and local regulations. The UK Environmental Protection Act 1990 applies. The disinfected material must be disposed of via autoclave in accordance with all local and national regulations.

#### 14. Transport information

Additional information arising from the Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007:

UN nos: 1845 and 3373 / 2814 / 2900  
Packing Instruction: PI 650 (UN3373) or PI 620 (UN2814; UN2900)

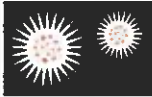
Refer to the IATA and ADR Dangerous Goods Regulations for the transport of Infectious substances – Division 6.2. viruses will either be Category A (UN2814 – Infectious substance, affecting humans or UN2900 – Infectious substance, affecting animals) or Category B (UN3373 – Biological substance Category B) as appropriate.

#### 15. Regulatory information

Material extracted from certain organisms may be covered by UK and international legislation including Advisory Committee for Dangerous Pathogens, Specified Animal Pathogen Order and Anti-terrorism, Crime and Security Act.

For agents covered by the Health & Safety Executive Specified Animal Pathogen Order, a SAPO holding licence is required for transfer to another laboratory.

For certain agents, an export licence is required if these agents are shipped outside the EU (1C351a31 of Annex 1 to the EC regulations).



I confirm that all necessary licenses required for the consignment of this material are in place and the recipient is able to safely handle the material.

**Print name:**

BARRY ATKINSON

**Sign:**

**Date:**

23/04/20

16. **Other information**

All materials and mixtures may present unknown hazards and should be used with caution. The user should make independent assessments and decisions regarding the completeness of the information based on all sources available. It is recommended that persons using this substance or material are fully acquainted with the hazards/safety in use procedures before handling. This data sheet does not constitute an assessment as required by the Control of Substances Hazardous to Health Regulations 2002 (as amended). The information contained in this publication is provided in good faith and is accurate to the best of our knowledge.

---

**Completed by NCPV representative:**

**Name:** Barry Atkinson

**Signature:**

**Date:** 23/04/2020

**Checked by Divisional Safety Officer:**

**Name:**

Ros Packer

**Signature:**

**Date:**

27.4.20

