SAFETY DATA SHEET
Citifluor CFPVOH

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name           Citifluor CFPVOH

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses         An aqueous polymer solution for use in fluorescence microscopy.

1.3. Details of the supplier of the safety data sheet
Supplier                Citifluor Ltd.
                        18 Enfield Cloisters
                        Fanshaw Street
                        London
                        N1 6LD
                        United Kingdom
                        Tel: +44 (0)20 7739 6561
                        Fax: +44 (0)20 7729 2936
Contact Person          R Stephen Davidson
davidson@citifluor.co.uk

1.4. Emergency telephone number
+44 (0)207 739 6561
Note
Office hours only.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)

<table>
<thead>
<tr>
<th></th>
<th>Physical and Chemical</th>
<th>Not classified.</th>
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<tr>
<td></td>
<td>Human health</td>
<td>Not classified.</td>
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<tr>
<td></td>
<td>Environment</td>
<td>Not classified.</td>
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The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health
May be slightly irritating to skin and eyes.

Environment
The product is not expected to be hazardous to the environment.

2.2. Label elements
Label In Accordance With (EC) No. 1272/2008
No pictogram required.

Precautionary Statements
P101 If medical advice is needed, have product container or label at hand.
P264 Wash contaminated skin thoroughly after handling.
P314 Get medical advice/attention if you feel unwell.
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition Comments
This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information
Remove affected person from source of exposure. Provide fresh air, first-aid, warmth and rest. Never give victim anything to drink if they are unconscious.

Inhalation
Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

Ingestion
If swallowed do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head low so that stomach contents do not enter lungs. Rinse mouth thoroughly and seek medical attention immediately. Keep patient at rest.

Skin contact
Remove contaminated clothing and shoes. Wash skin thoroughly with soap and running water. Take especial care to clean folds, crevices, creases and groin. Get medical attention if irritation persists or develops.

Launder clothing and clean shoes thoroughly before reuse.

Eye contact
Check for contact lenses which must be removed from the eyes before rinsing. Promptly rinse eyes with plenty of clean water while lifting the eyelids. Continue to rinse for at least 15 minutes. Continue until the eyes are free of all traces of contamination. Get medical attention if any discomfort or irritation persists.

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

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
During fire, toxic gases (CO, CO2) are formed.

Unusual Fire & Explosion Hazards
No unusual fire or explosion hazards noted.

5.3. Advice for firefighters

Protective equipment for fire-fighters
Wear self-contained breathing apparatus and full protective clothing. Keep all unnecessary people away. Fire water run-off must not be allowed to contaminate ground or enter drains, sewers or water courses. Provide bunding against fire water run-off.

SECTION 6: ACCIDENTAL RELEASE MEASURES
Citifluor CFPVOH

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective clothing (see Section 8). Keep unnecessary people at a safe distance.

6.2. Environmental precautions
Cover all drains and sewers. Avoid spreading spilled material.

6.3. Methods and material for containment and cleaning up
Absorb in vermiculite, sand, diatomaceous earth or other inert absorbent material. Place into clearly labelled container for recovery or disposal (see section 13). Rinse site with copious amounts of water, which should not be allowed into drains, sewers or water courses.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Avoid spilling, skin and eye contact. Normal precautions necessary for the handling of all chemicals and the information and advice provided in this safety data sheet (SDS) should be observed.

7.2. Conditions for safe storage, including any incompatibilities
Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters
Ingredient Comments
No exposure limits noted for ingredient(s).

8.2. Exposure controls
Engineering measures
Provide adequate general and local exhaust ventilation.
Respiratory equipment
In case of inadequate ventilation use suitable respirator.
Hand protection
Avoid prolonged or repeated contact, use suitable protective gloves made of Butyl rubber, Nitrile. After using gloves the hands should be washed and dried thoroughly and a suitable moisturiser applied.
Eye protection
Wear goggles/face shield.
Hygiene measures
Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties
Appearance Clear colourless liquid.
Odour Odourless.
Solubility Completely soluble in water
Initial boiling point and boiling range (°C) ca. 100°C
Viscosity ca. 100 cP @ 20°C
Flash point (°C) Not applicable.
Aqueous solution.
9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability
Stable under normal conditions of storage and use. See section 7.

10.3. Possibility of hazardous reactions
Not known.

10.4. Conditions to avoid
Avoid frost.

10.5. Incompatible materials
Materials To Avoid
Acids, non-oxidising.

10.6. Hazardous decomposition products
During fire, toxic gases (CO, CO2) are formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information
No data are available for this product. It has been classified according to the calculation procedure of the EC Dangerous Preparations Directive using known information and calculated data about the individual components then read across to the Classification, Labelling and Packaging of substances and mixtures directive (as amended).

General information
This product has low toxicity. Only large volumes may have adverse impact on human health.

No ill effects are expected if this product is used for its intended purpose or when processing and handling it with the normal precautions employed in the use of chemicals.

Inhalation
May cause irritation to the respiratory system.

Ingestion
May cause discomfort if swallowed.

Skin contact
Skin irritation is not anticipated when used normally. Not a skin sensitiser.

Eye contact
Splashes may irritate.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity
No data is available for this preparation. Classified according to the calculation procedure of the EC Dangerous Preparations Directive using known data and information about the individual components

12.2. Persistence and degradability
Citifluor CFPVOH

Degradability
The product is expected to be biodegradable.

12.3. Bioaccumulative potential
Bioaccumulative potential
The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil
Mobility:
The product contains substances, which are water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment
This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects
The product may contribute to an excessive enrichment of the aquatic environment with nutrients.

SECTION 13: DISPOSAL CONSIDERATIONS

General information
Do not dispose to landfill or watercourses. Product is hazardous waste. Do not allow into drains, sewers or water courses. Disposal must be by means of a licensed waste contractor.

13.1. Waste treatment methods
Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction.

SECTION 14: TRANSPORT INFORMATION

General
The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
Not applicable.
Transport Labels
No transport warning sign required.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

SECTION 15: REGULATORY INFORMATION
Citifluor CFPVOH

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

Statutory Instruments
Control of Substances Hazardous to Health Regulations (as amended). (COSHH)
Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007. (CDG 2009)
Approved Code Of Practice
The Control of Substances Hazardous to Health Regulations 2002 (as amended). Approved code of practice and guidance.
Guidance Notes
CHIP for everyone HSG(108).
COSHH essentials. 'Easy steps to control chemicals.' Only available on HSE's website and regularly updated at
http://www.hse.gov.uk/pubns/guidance/index.htm
Maintenance, examination and testing of local exhaust ventilation HSG154 (HSE 1998).
EU Legislation
Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals
93/105/EC and 2000/21/EC, including amendments.
labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and
ADR (L'Accord européen relatif au transport international des marchandises dangereuses par route.)

15.2. Chemical Safety Assessment
No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments
Comprehensive revision.
New format SDS, including classification to CLP (EC 1272/2008).
And translated into the language of this document as of the date below.
Revision Date 29-APR-13
Revision 03 replaces 02
Supersedes date 31-MAR-04
Risk Phrases In Full
NC Not classified.

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