

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

1.1 Product identifier

Mixture Name : FiberProbes® FSHD
Reference : FSHD-HYB-001-RU

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

Relevant identified uses : Fluorescent hybridization on DNA stretched by Molecular Combing.

1.3 Details of the manufacturer and supplier of the safety data sheet

Genomic Vision S.A.
Bât. E, Green Square
80-84 rue des meuniers
92220 Bagneux – France
Email : support@genomicvision.com
Tel : +33 (0)149080740
Fax : +33 (0)149080741

1.4 Emergency telephone number

ORFILA (INRS) : + 33 (0)1 45 42 59 59

SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Non-hazardous mixture according to the European Directive CE 1999/45/CE and Regulation (EC) N° 1272/2008 relative to classification, labelling and packaging of substances and mixtures,

2.2 Label elements

The product does not require specific labeling according to the EC Directives and according to the national regulations of the concerned country.

2.3 Other hazards

No other hazards identified. No data available

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable, the product is not a substance.

3.2 Mixture

| Name | N° CAS | Range (%) |
|---|---------------|-----------|
| Labeled FiberProbes® FSHD | Not available | ≤ 1 |
| Deoxyribonucleic acid (DNA) | 9007-49-2 | ≤ 1 |
| 20x SSC | Not available | 2-20 |
| Sodium chloride | 7647-14-5 | ≤ 1 |
| Sodium Dodecyl Sulfate | 151-21-3 | ≤ 1 |
| Sodium lauroyl sarcosinate, sodium salt | 137-16-6 | ≤ 1 |
| BlockAid™ blocking solution | 54-64-8 | 20-60 |

SECTION 4 : FIRST AID MEASURES

4.1 Description of the first aid measures

General notes

Consult a physician. Present this Material Safety Data Sheet to your physician

Following inhalation

Ensure supply of fresh air.

Following skin contact

Wash off immediately with water. Remove contaminated clothes immediately.

Following contact

Separate eyelids, wash the eyes thoroughly with water.

Following ingestion

Summon a doctor immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Self-protection of the first aider

None required. Use normal protective gloves, glasses and clothing.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indications of any immediate medical attention and special treatment needed

No data available

SECTION 5 : FIREFIGHTING MEASURES

5.1 Extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas

5.2 Special hazard arising from the substance or mixture

No Data available

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing

SECTION 6 : ACCIDENTAL REALEASE MEASURES

6.1 Personal protections, protective equipment and emergency procedures

Use Personal protective equipment (PPE) and appropriate method to rapidly clean the spill of the mixture.

6.2 Environmental precautions

Do not discharge into drains/ surface water/groundwater. Do not discharge into the subsoil/soil

6.3 Methods and material for containment and cleaning up

In case of small spill, dilute in water and wipe or absorb with an inert dry material. In case of large spill, absorb with an inert dry material. Preserve in bowls adapted and closed for the elimination. Clean the contaminated zone.

6.4 Reference to other sections

For disposal, see section 13

SECTION 7 : HANDLING AND STORAGE

7.1 Precautions for safe handling

This mixture has to be handle by people who were trained to the techniques of laboratory. The mixture has to be used according to the best practice of laboratory.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed at 20°C protected from the light in case of non-use. Transport in dry ice.

7.3 Specific end use(s)

No data available

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1 Control parameters

Components with exposure limit values professional

Does not contain substances with exposure limit values professional: none of the components of the mixture is listed by the INRS.

8.2 Exposure controls

Appropriate engineering controls

To be manipulated according to best practice of laboratory. As all the chemical substances, he must be considered potentially dangerous, carry protective clothing adapted lab coat, safety glasses and protective gloves during the manipulation of the mixture.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | |
|-----------------|--------------------|
| a) Appearance : | Colorless liquid |
| b) Odour : | Data not available |

| | |
|---|--------------------|
| c) Odour threshold: | Data not available |
| d) pH : | Data not available |
| e) Melting point/freezing point | Data not available |
| f) Initial boiling point and boiling range : | |
| g) Flash point : | Data not available |
| h) Evaporation rates : | Data not available |
| i) Flammability : | Data not available |
| j) Upper/lower flammability or explosive limits : | Data not available |
| k) Vapour pressure : | Data not available |
| l) Vapour density : | Data not available |
| m) Relative density : | Data not available |
| n) Solubility : | Data not available |
| o) Partition coefficient: n-octano/water : | Data not available |
| p) Auto-ignition temperature : | Data not available |
| q) Decomposition temperature : | Data not available |
| r) Viscosity : | Data not available |
| s) Explosive properties : | Data not available |
| t) Oxidising properties : | Data not available |

9.2 Other information

Data not available

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity

Data not available.

10.2 Chemical stability

The mixture is stable when it is kept in the recommended conditions.

10.3 Possibility of hazardous reactions

Data not available

10.4 Conditions to avoid

Avoid the excessive heat and the exposure in the light.

10.5 Incompatible materials

Incompatible with powerful oxidizing and reducing agents, acids and strong bases.

10.6 Hazardous decomposition products

Data not available

SECTION 11 : TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Data not available

Skin corrosion/irritation

Data not available

Serious eye damage/irritation

Data not available

Respiratory or skin sensitisation

Data not available

Germ cell mutagenicity

Data not available

Carcinogenicity

None of the components of the mixture is listed by the IARC

Reproduction toxicity

Data not available

Stot-single exposure

Data not available

Stot-repeated exposure

Data not available

Aspiration hazard

Data not available

SECTION 12 : INFORMATIONS ÉCOLOGIQUES

12.1 Toxicity

Data not available

12.2 Persistence and degradability

Data not available

12.3 Bioaccumulative potential

Data not available

12.4 Mobility in soil

Data not available

12.5 Results of PBT and vPvB assessment

Data not available

12.6 Other adverse effects

Data not available

12.7 Additional information

Data not available

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product disposal

The chemical residues are generally considered as special waste. Contact a company specialized in the disposal of chemical waste to proceed to the elimination of this product.

Packaging disposal:

Disposal according to the local legal regulations. The contaminated packaging must be eliminated in the same way as the product itself.

SECTION 14 : TRANSPORT INFORMATIONS

Not subjected to the transport regulations.

SECTION 15 : REGULATORY INFORMATIONS

This safety data sheet is in compliance with the requirements of the Regulation (CE) N°272/2008.

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

Data not available.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture by the supplier.

SECTION 16 : OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Genomic Vision S.A cannot be held responsible for damage resulting from the use or from any contact with this product.