

# Safety Data Sheet

## FITC-HES

Version 5.0 Revision date 2025-11-19  
SDS on the basis of Regulation (EC) No. 1907/2006

### Section 1. Product Identification

Product name: FITC-hydroxyethyl starch  
Chemical name: Fluorescein isothiocyanate hydroxyethyl starch  
Catalogue no. FHES  
CAS no. N/A  
Mol. Formula: N/A  
Description: A fluorescent derivative of hydroxyethyl starch, supplied as an orange to dark orange powder which is readily soluble in water.  
Manufacturer: TdB Labs AB, Ulls väg 37, 756 51 Uppsala, SWEDEN  
Tel: +46 (0)730608200

### Section 2. Hazards Identification

Classification of the substance Not a hazardous substance  
Label elements Caution- substance not yet tested completely

### Section 3. Composition/Information on ingredients

Chemical family: Saccharide derivative  
Appearance/odour: Orange powder, no distinctive odour  
Melting point: Decomposes on heating  
Solubility: Freely soluble in water  
Molecular weight: Approx. 200 000 Da

### Section 4. First-aid Procedures

Inhalation: Remove exposed person to fresh air. Get medical attention.  
Eyes: Wash thoroughly with water for 15 minutes. Get medical attention.  
Skin: Wash off with soap and water.  
Ingestion: Rinse mouth with water and give water to drink. No treatment required if only small amount.

### Section 5. Fire-fighting Measures

Extinguishing media: Carbon dioxide, dry chemicals or water  
Special fire-fighting procedures: Use media appropriate for primary cause of fire.

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### Section 6. Accidental Release Measures

Action in event of spill: Collect material taking precautions to minimize dust. Use wet mop. Place collected material in suitable container for disposal. Flush area with water and drain into sewer. Floor may become slippery.

### Section 7. Handling and storage

Precautions to be taken when handling. Protect from dust. Use approved facemask and protective clothes. Wear safety glasses. In case of severe and repeated exposure follow recommendations of local safety officer. Store in tight dark container.

### Section 8. Exposure Controls/Personal Protection

Exposure limit: Not established  
Special personal protective equipment: Use suitable protective clothing  
Respiratory: Use approved face mask.  
Eyes: Use safety goggles.  
Gloves: Use plastic gloves

### Section 9. Physical and Chemical Properties

General information  
Appearance: Orange powder, no distinctive odour  
Vapour pressure: N/A  
Melting point: Decomposes with charring  
Boiling point: N/A  
Flash point: N/A  
Solubility in water: > 50 % by weight

### Section 10. Stability and Reactivity

Stability (normal conditions): Stable for more than 6 years when stored dry in well-sealed containers at ambient temperature, protected from light.  
Hazardous polymerization: Does not occur.  
Conditions to avoid: High humidity  
Incompatibility: Avoid contact with oxidizing agent (e.g. nitric acid)  
Hazardous decomposition products: Thermal decomposition may yield oxides of carbon and small amounts of oxides of nitrogen.

### Section 11. Toxicological information

Toxicity information: The substance is well tolerated by experimental animals and cells and no toxic effects are expected under normal operating conditions. No formal toxicity reports available.

LD50: N/A

Routes of entry:

Inhalation

Eye contact

Skin contact

Ingestion:

Effects of occupational overexposure:

No information on the toxicity after inhalation.

Most dust will produce irritation, inflammation or toxic symptoms on prolonged inhalation.

No information available on eye exposure.

Dermal absorption not known but presumably nil.

No information of toxicity available.

### Section 12. Ecological information

No information available.

### Section 13. Disposal Recommendations

Collect material taking precautions to minimize dust. Use wet mop. Place collected material in suitable container for disposal. Flush area with water and drain into sewer. Large quantities may be incinerated.

### Section 14. Transport information

EEC:

Not listed

Dangerous goods:

Not restricted

EINECS:

Not listed

### Section 15. Regulatory information

P261

Avoid breathing dust.

P264

Wash hands thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P280

Wear protective gloves/clothing/eye protection/ face protection.

P284

Wear respiratory protection.

P302 + P352

IF ON SKIN: Wash with plenty of water.

P333 + P313

If skin irritation or rash occurs: Get medical advice/ attention.

P305 + P338

IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

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P301 + P351	IF SWALLOWED: Rinse cautiously with water for several minutes.
P342 + P340 + P313	If experiencing respiratory symptoms: Remove person to fresh air and keep comfortable for breathing. Get medical advice/ attention.
P402 + P404	Store in a dry place. Store in a closed container
P232 + P233	Protect from moisture. Keep container tightly closed.

#### Section 16. Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. TdB Labs AB shall not be held liable for any damage resulting from handling or from contact with the above product.