# SAFETY DATA SHEET

SD2148-R00

## 1. Identification

### GHS PRODUCT IDENTIFIER

Product name: Fluorescein-CE Phosphoramidite

### OTHER MEANS OF IDENTIFICATION

Item number: 2148
Catalogue number(s): 2148-YZZZ, where Y=letters A-Z, ZZZ=numbers 000-999]
Brand: Not applicable.

### RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

For laboratory and manufacturing use. Not for drug, household or other use.

### SUPPLIER'S DETAILS

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### EMERGENCY PHONE NUMBER

+44 (0) 1698 849911 (Monday to Friday 8 am to 6 pm)

## 2. Hazard identification

### GHS CLASSIFICATION OF THE SUBSTANCE/MIXTURE

Signal word: Warning
Acute toxicity, oral: Category 5
Acute toxicity, dermal: Category 5
Acute toxicity, inhalation: Category 5
Serious eye damage/eye irritation: Category 2B

### GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

**Hazard Statements**

H303+H313+H333 May be harmful if swallowed, in contact with skin or if inhaled.
H320 Causes eye irritation.

**Precautionary Statements**

Prevention

| | |
|---|---|
| P264 | Wash hands thoroughly after handling. |

Response

| | |
|---|---|
| P312 | Call a doctor if you feel unwell. |
| P304 + P312 | IF INHALED: Call a doctor if you feel unwell. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |

**OTHER HAZARDS**

No data available.

## 3. Composition/information on ingredients

**CHEMICAL IDENTITY**

1-(4,4'-Dimethoxytrityloxy)-2-(N-thiourea-(di-O-pivaloyl-fluorescein)- 4-aminobutyl)-propyl-3-O-[(2-cyanoethyl)-(N,N-diisopropyl)]- phosphoramidite

**COMMON NAME, SYNONYMS, ETC.**

Fluorescein amidite

**CAS NUMBER AND OTHER UNIQUE IDENTIFIERS**

| | |
|---|---|
| CAS number: | 178925-53-6 |
| EC number: | Not available. |

**IMPURITIES AND STABILIZING ADDITIVES WHICH ARE THEMSELVES CLASSIFIED**

None known.

## 4. First aid measures

**DESCRIPTION OF NECESSARY MEASURES**

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Obtain medical attention.

**In case of skin contact**

Remove any contaminated clothing. Wash off with soap and plenty of water. Obtain medical attention.

**In case of eye contact**

Flush eyes copiously with water for at least 15 minutes. Use a sterile eye wash if available. Obtain medical attention.

**If swallowed**

Keep person calm and immobile. Rinse mouth with water if conscious. Never give anything by mouth to an unconscious person. Obtain medical attention.

**MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY**

No data available.

## 5. Fire-fighting measures

**SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL (E.G. NATURE OF ANY HAZARDOUS COMBUSTION PRODUCTS)**

Possibility of carbon oxides, nitrogen oxides (NOx), or oxides of phosphorus on combustion.

**SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS**

Wear mask and protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus if necessary.

## 6. Accidental release measures

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Wear protective clothing, respirator, chemical safety goggles, rubber gloves and rubber boots. Avoid dust formation. Avoid breathing dust, vapours, mist or gas.

**ENVIRONMENTAL PRECAUTIONS**

Prevent product from entering drains.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

Clean the contaminated area thoroughly with a suitable solvent and absorbent material taking care to avoid breathing fumes. Contain spills using adsorbent barriers where available. Dispose of all cleaning materials with care (see section 13), where possible containing in sealed containers for appropriate disposal.

## 7. Handling and storage

**PRECAUTIONS FOR SAFE HANDLING**

Handle with due care and attention. Do not eat, drink or smoke when using this product. In addition to instructions in section 8, wash hands after use and remove any contaminated clothing and protective equipment before entering eating areas.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Containers should be kept sealed and safely stored when not in use. Store in a freezer at -20ºC.

## 8. Exposure controls/personal protection

**CONTROL PARAMETERS (OCCUPATIONAL EXPOSURE LIMIT VALUES OR BIOLOGICAL LIMIT VALUES)**

Contains no substances with occupational exposure limit values.

**APPROPRIATE ENGINEERING CONTROLS**

General industrial laboratory hygiene practice. Use product within air-extracted fume hood where possible.

**INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT**

**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

A laboratory coat must be worn. Arms, legs and feet should be covered with suitable clothing and shoes.

**Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. Physical and chemical properties

| | |
|---|---|
| Appearance (physical state, colour etc.): | Colourless or off-white solid |
| Odour: | No data available |
| Odour threshold: | No data available |

| | |
|---|---|
| pH: | No data available |
| Melting point/freezing point: | No data available |
| Initial boiling point and boiling range: | No data available |
| Flash point: | No data available |
| Evaporation rate: | No data available |
| Flammability (solid, gas): | No data available |
| Upper/lower flammability or explosive limits: | No data available |
| Vapor pressure: | No data available |
| Vapor density: | No data available |
| Relative density: | No data available |
| Solubility(ies): | Acetonitrile; Dichloromethane |
| Partition coefficient: n-octanol/water: | No data available |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| Viscosity: | No data available |
| Empirical formula: | $C_{68}H_{79}N_4O_{12}PS$ |
| Molecular weight (g/mol): | 1207.50 |

## 10. Stability and reactivity

**REACTIVITY**

No data available.

**CHEMICAL STABILITY**

Stable.

**POSSIBILITY OF HAZARDOUS REACTIONS**

No data available.

**CONDITIONS TO AVOID (E.G. STATIC DISCHARGE, SHOCK OR VIBRATION)**

No data available.

**INCOMPATIBLE MATERIALS**

Oxidising agents, reducing agents, bases, strong acids.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Possibility of carbon oxides, nitrogen oxides (NOx), or oxides of phosphorus on combustion.

## 11. Toxicological information

**TOXIC EFFECTS**

| | |
|---|---|
| Acute toxicity: | No data available |
| Skin corrosion/irritation: | No data available |
| Serious eye damage/irritation: | No data available |
| Respiratory or skin sensitization: | No data available |
| Germ cell mutagenicity: | No data available |
| Carcinogenicity: | No data available |
| Reproductive toxicity: | No data available |
| STOT-single exposure: | No data available |
| STOT-repeated exposure: | No data available |
| Aspiration hazard: | No data available |

**INFORMATION ON THE LIKELY ROUTES OF EXPOSURE**

Exposure via inhalation, ingestion, skin and eye contact - data on the health effects of such exposure is not available.

**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS**

No data available. To the best of our knowledge the chemical, physical and toxicological properties of this substance have not been investigated. Handle with care to avoid all unnecessary exposure and release into the atmosphere. If you feel unwell after using this product then immediately seek medical attention.

**DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE**

No data available.

**NUMERICAL MEASURES OF TOXICITY (SUCH AS ACUTE TOXICITY ESTIMATES)**

No data available.

## 12. Ecological information

**TOXICITY**

No data available.

**PERSISTENCE AND DEGRADABILITY**

No data available.

**BIOACCUMULATIVE POTENTIAL**

No data available.

**MOBILITY IN THE SOIL**

No data available.

**OTHER ADVERSE EFFECTS**

No data available.

## 13. Disposal Considerations

**DISPOSAL METHODS**

For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in section 8 of the SDS. Dispose by incineration at high temperature in an approved incinerator fitted with appropriate environmental protection equipment. Contaminated packaging should be treated as product. Dispose of in accordance with all applicable Local, National, State and Federal regulations. Labels should not be removed from containers until they have been thoroughly cleaned in an appropriate manner. Containers should not be treated as domestic waste and disposed of appropriately. Always use an approved disposal company. Do not dispose to drains.

## 14. Transport information

**UN number**

Not applicable

**UN proper shipping name**

Not dangerous goods

**Transport hazard class(es)**

Not applicable

**Packing group**

Not applicable

**Environmental hazards**

IMDG Marine Pollutant: No

ADR: Non-hazardous by road

RID: Non-hazardous by rail

ADN: Non-hazardous by inland water-ways

IATA: Non-hazardous by air

**Special precautions for the user**

Not applicable.

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)**

Non-hazardous by sea.

## 15. Regulatory information

This safety datasheet complies with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Fourth revised edition, 2011.
No further safety, health and environmental regulations specific for the product in question are available.

## 16. Other information

| | |
|---|---|
| Document Number: | SD2148-R00 |
| Approved: | 17 June 2015 |
| Last Revision Date: | No revisions. |
| Revision history: | No revisions. |

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