* **1 Identification**

- Product identifier
- Trade name: Opti-Fluor O
- Article number: 6013339, 6013331
- CAS Number: 67774-74-7
- EC number: 207-051-0
- Index number: 601-050-00-1
- Application of the substance / the mixture: Laboratory chemicals

- Details of the supplier of the safety data sheet
- Manufacturer/Supplier: PerkinElmer Health Sciences B.V.
  Rigaweg 22
  9723 TH Groningen
  The Netherlands
  P.O. Box 5205
  9700 GE Groningen
  The Netherlands
  Phone: 0031 50 5445900
  Fax: 0031 50 5445950
  www.perkinelmer.com
- Information department:
  Quality Assurance, Environment, Safety & Health (QA/ESH)
  SDS.Groningen@perkinelmer.com
- Emergency telephone number:
  +31 50 5445971
  CHEMTREC (within U.S.A. and Canada) 1-800-424-9300
  CHEMTREC (from outside U.S.A. and Canada) +1703-527-3887

* **2 Hazard(s) identification**

- Classification of the substance or mixture
  
  ![GHS08 Health hazard]

  Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- Label elements
- GHS label elements
  The substance is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms

  ![GHS08]
Trade name: Opti-Fluor O

- **Signal word** Danger
- **Hazard-determining components of labeling:** benzene, C10-13-alkyl derivatives
- **Hazard statements**
  - H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**
  - P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
  - P331 Do NOT induce vomiting.
- **Other hazards**
- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
  - 67774-74-7 benzene, C10-13-alkyl derivatives
- **Identification number(s)**
  - EC number: 267-051-0
  - Index number: 601-050-00-1

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
  - Foam
  - Fire-extinguishing powder
  - Carbon dioxide
- **Special hazards arising from the substance or mixture:** No further relevant information available.
Trade name: Opti-Fluor O

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Ensure adequate ventilation
- Environmental precautions: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections
  No dangerous substances are released.

7 Handling and storage

- Handling:
- Precautions for safe handling
  Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires:
  No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
  Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
- Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment:
  General protective and hygienic measures:
  The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment: Not required.
- Protection of hands:

  Protective gloves

  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 4)
Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
  - Appearance:
    - Form: Fluid
    - Color: Colorless
    - Odor: Characteristic
- Change in condition
  - Melting point/Melting range: -70 °C (-94 °F)
  - Boiling point/Boiling range: 280 °C (536 °F)
- Flash point: 150 °C (302 °F)
- Ignition temperature: 350 °C (662 °F)
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
- Density at 20 °C (68 °F): 0.86 g/cm³ (7.177 lbs/gal)
- Solubility in / Miscibility with
  - Water: Not miscible or difficult to mix.
  - Organic solvents: 0 %
- Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Carbon monoxide
11 Toxicological information

· Information on toxicological effects
  · Acute toxicity:
  · Primary irritant effect:
    · on the skin: No irritant effect.
    · on the eye: No irritating effect.
  · Sensitization: No sensitizing effects known.
  · Additional toxicological information:
    When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

· Carcinogenic categories
  · IARC (International Agency for Research on Cancer)
    Substance is not listed.
  · NTP (National Toxicology Program)
    Substance is not listed.
  · OSHA-Ca (Occupational Safety & Health Administration)
    Substance is not listed.

12 Ecological information

· Toxicity
  · Aquatic toxicity: No further relevant information available.
  · Persistence and degradability No further relevant information available.
  · Behavior in environmental systems:
  · Bioaccumulative potential: No further relevant information available.
  · Mobility in soil: No further relevant information available.
  · Additional ecological information:
    · General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water
    · Results of PBT and vPvB assessment
      · PBT: Not applicable.
      · vPvB: Not applicable.
    · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods
  · Recommendation:
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
# 14 Transport information

- **UN-Number**
  - ADR, ADN, IMDG, IATA: Void
- **UN proper shipping name**
  - ADR, ADN, IMDG, IATA: Void
- **Transport hazard class(es)**
  - ADR, ADN, IMDG, IATA
  - Class: Void
- **Packing group**
  - ADR, IMDG, IATA: Void
- **Environmental hazards:**
  - Marine pollutant: No
- **Special precautions for user**
  - Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Not applicable.
- **Transport/Additional information:**
  - Not dangerous according to the above specifications.
- **UN "Model Regulation":**
  - Void

# 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Sara**
    - **Section 355 (extremely hazardous substances):**
      - Substance is not listed.
    - **Section 313 (Specific toxic chemical listings):**
      - Substance is not listed.
  - **TSCA (Toxic Substances Control Act):**
    - Substance is listed.
  - **Proposition 65**
    - **Chemicals known to cause cancer:**
      - Substance is not listed.
    - **Chemicals known to cause reproductive toxicity for females:**
      - Substance is not listed.
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- **Chemicals known to cause reproductive toxicity for males:**
  - Substance is not listed.

- **Chemicals known to cause developmental toxicity:**
  - Substance is not listed.

- **Carcinogenic categories**
  - **EPA (Environmental Protection Agency)**
    - Substance is not listed.
  - **TLV (Threshold Limit Value established by ACGIH)**
    - Substance is not listed.
  - **MAK (German Maximum Workplace Concentration)**
    - Substance is not listed.
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    - Substance is not listed.

- **National regulations:**
  - **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
  - **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Quality Assurance, Environment, Safety & Health (QA/ESH)
- **Contact:** SDS.Groningen@perkinelmer.com
- **Date of preparation / last revision:** 12/23/2015 / 2
- **Abbreviations and acronyms:**
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
  - ICAO: International Civil Aviation Organisation
  - ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - Asp. Tox. 1: Aspiration hazard, Hazard Category 1
- **Data compared to the previous version altered.**