

# Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)  
Issue date: 09/15/2023



## SECTION 1: Identification

### 1.1. Product Identifiers

Product form : Substance  
Product name : IR 680LT NHS ester  
Synonym : IRDye 680LT NHS Ester  
Product code : FP-1526

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

Identified Uses : Laboratory chemicals, manufacture of substances

### 1.3. Supplier

#### Manufacturer

Vector Laboratories, Inc.  
8341 E. Gelding Drive  
Scottsdale, AZ 85260  
T: (480) 584-3340  
[customerservice@vectorlabs.com](mailto:customerservice@vectorlabs.com)

### 1.4. Emergency telephone number

Emergency number : US only (800) 227-6666 or outside of the US +1 (650) 697-3600 (7:15 AM - 5:00 PM PST)

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

Not a hazardous substance or mixture.

### 2.2. GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

### 2.3. Hazards not otherwise classified (HNOC) or not covered by GHS

Not a hazardous substance or mixture.

## SECTION 3: Composition/Information on ingredients

Cas No. : N/A

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

If inhaled : Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.  
In case of skin contact : Rinse with plenty of water. If symptoms arise, call a physician.  
In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.  
If swallowed : Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

### 4.2. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

### 5.2. Advice from firefighters

Wear self-contained breathing apparatus and protective suit.

### 5.3. Further information

No data available

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment.

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

### 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material.

### 6.4. Reference to other sections

See Section 12 for additional information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Always wear recommended Personal Protective Equipment. No special handling advice required.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### IR 680LT NHS ester

No additional information available

### 8.2. Appropriate engineering controls

Exposure Limits : We are not aware of any national exposure limit.  
Engineering measures : Ensure adequate ventilation, especially in confined areas.

### 8.3. Individual protection measures/ Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

#### Eye/Face protection:

Safety glasses with side-shields

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<b>Hand protection:</b>
Impervious gloves
<b>Skin/Body Protection:</b>
Lightweight protective clothing
<b>Hygiene measures:</b>
Handle in accordance with good industrial hygiene and safety practice
<b>Respiratory protection:</b>
In case of insufficient ventilation wear suitable respiratory equipment.
<b>Control of Environmental exposure:</b>
Prevent product from entering drains

## Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	: No data available
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: Not applicable
Melting / Freezing points	: °C and °F No data available
Initial boiling point & boiling range	: °C and °F No data available
Flash point	: °C and °F No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Solubility	: Water, DMSO, DMF
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other safety information

No data available.

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## SECTION 10: Stability and reactivity

### 10.1. Chemical stability

Stable under normal conditions

### 10.2. Materials to avoid

No dangerous reaction known under conditions of normal use

### 10.3. Hazardous decomposition products

None under normal use

### 10.4. Polymerization

Hazardous polymerization does not occur

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicology	: No data available
Acute toxicology (inhalation)	: No data available
Acute toxicology (dermal)	: 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 IARC	: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Carcinogenicity ACGIH	: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
Carcinogenicity NTP	: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Carcinogenicity OSHA	: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	: No data available
Specific target organ toxicity – single exposure	: No data available
Specific target organ toxicity – repeated exposure	: No data available
Aspiration hazard	: No data available
Additional information	: RTECS: Not available

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

## SECTION 12: Ecological information

### 12.1. Toxicity

No information available

### 12.2. Mobility

No information available

### 12.3. Persistence and degradability

Inherently biodegradable

### 12.4. Bio accumulative potential

Does not bioaccumulate

### 12.5. Other adverse effects

No information available

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## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of in accordance with local regulations.

## SECTION 14: Transport information

### 14.1. IATA

Proper Shipping Name : Not classified as dangerous in the meaning of transport regulations  
Hazard class : None  
Subsidiary Class : None  
Packing Group : None  
UN-No : None

## SECTION 15: Regulatory information

### 15.1. SARA 313 Components

This product is not regulated by SARA

### 15.2. Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

### 15.3. California Proposition 65

This product does not contain chemicals listed under Proposition 65

### 15.4. WHMIS Hazard Class

Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

## SECTION 16: Other information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.