

# SAFETY DATA SHEET

## SECTION 1. PRODUCT IDENTIFICATION

**1.1 Product Name:** 1H,1H,2H,2H-Perfluorodecyl iodide

**1.2 Catalog Number:** APL-2043530

**1.3 Relevant identified uses of the substance or mixture and uses advised against:**

◆ **Identified uses:** For R&D use only.

**1.4 Details of the supplier of the safety data sheet**

◆ **Company:** APOLO Biochemical, Inc

575 ELMWOOD AVE.

MC56940A, ROCHESTER,

NY 14642, USA

◆ **Customer Information E-mail:** info@apolobiochem.com / order@apolo.com.tw

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 GHS Classification

Acute toxicity, oral (Category 4)

Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation (Category 2A)

Respiratory tract irritation (Category 3)

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed

H315

Causes skin irritation

H319

Causes serious eye irritation

H335

May cause respiratory irritation

Precautionary statement(s)

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P301 + P312	IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
P302 + P352	IF ON SKIN: wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

**Synonyms** 1-Iodo-1H,1H,2H,2H-perfluorodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8-Heptadecafluoro-10-iododecane, 2(Perfluorooctyl)ethyl iodide, 1H,1H,2H,2H-Heptadecafluorodecyl iodide

**Formula** C<sub>10</sub>H<sub>4</sub>F<sub>17</sub>I

**Molecular weight** 574.02 g/mol

CAS	Description	Concentration
2043-53-0	1H,1H,2H,2H-Perfluorodecyl iodide	99%

## SECTION 4. FIRST AID MEASURES

### 4.1 In case of eye contact

Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.

### 4.2 In case of skin contact

Wash thoroughly with soap and plenty of water. Seek medical attention.

### 4.3 If inhaled

Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

### 4.4 If swallowed

Do not induce vomiting. Give water to victim to drink. Seek medical attention.

## SECTION 5. FIRE FIGHTING MEASURES

### 5.1 Suitable extinguishing media

Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

### 5.2 Special protective equipment for firefighters

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

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### 5.3 Unusual fire and explosion hazards/decomposition of product

Emits toxic fumes under fire conditions.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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### 6.1 Personal precautions

Use personal protective equipment. Avoid breathing fumes, vapors, mists or gas. Ventilate area.

Remove all sources of ignition. Evacuate personnel.

### 6.2 Environmental precautions

Prevent further leakage if safe to do so.

### 6.3 Methods and materials for containment and clean up

Absorb spills on sand or vermiculite and place in closed container for disposal.

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## SECTION 7. HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling.

### 7.2 Precautions for safe storage

Keep container tightly closed. Store in a cool, dry, well-ventilated area.

Light sensitive.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Contains no substances with occupational exposure limit values.

### 8.1 Personal protective equipment

#### ◆ Eye/face protection

Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

#### ◆ Hand/skin protection

Avoid all direct contact with product.

Wear chemical-resistant gloves.

Wear protective clothing and boots.

After contact with skin, wash immediately.

#### ◆ Respiratory protection

Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	white solid
<b>Odor</b>	No data available
<b>Odor Threshold</b>	No data available
<b>Melting point/Freezing Point</b>	56-58°C
<b>Boiling Point</b>	178-180°C
<b>Flash Point</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/Lower Flammability or Explosive limits</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Relative Density</b>	No data available
<b>Solubility(ies)</b>	Acetone
<b>Partition coefficient: noctanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Refractive Index</b>	No data available

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## SECTION 10. STABILITY AND REACTIVITY

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### 10.1 Chemical stability

Stable under recommended storage conditions.

### 10.2 Possibility of hazardous reactions

no data available

### 10.3 Conditions to avoid

Light.

### 10.4 Incompatible materials

Strong oxidizing agents and light.

### 10.5 Hazardous decomposition products

May evolve carbon monoxide, carbon dioxide, hydrogen fluoride, and hydrogen iodide.

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## SECTION 11. TOXICOLOGICAL INFORMATION

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### 11.1 Acute toxicity

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no data available

### **11.2 Skin corrosion/irritation**

Causes skin irritation.

### **11.3 Serious eye damage/eye irritation**

Causes serious eye irritation.

### **11.4 Respiratory or skin sensitization**

no data available

### **11.5 Germ cell mutagenicity**

no data available

### **11.6 Carcinogenicity**

no data available

### **11.7 Reproductive toxicity**

no data available

### **11.8 STOT-single exposure**

May cause respiratory irritation.

### **11.9 STOT-repeated exposure**

no data available

### **11.10 Aspiration hazard**

no data available

### **11.11 Exposure Routes**

Irritating to skin, eyes, and respiratory system.

May have harmful effects if inhaled or swallowed.

To the best of our knowledge, the health hazards of this material have not been fully investigated.

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## **SECTION 12. ECOLOGICAL INFORMATION**

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### **12.1 Toxicity**

no data available

### **12.2 Persistence and degradability**

no data available

### **12.3 Bioaccumulative potential**

no data available

### **12.4 Mobility in soil**

no data available

## 12.5 PBT and vPvB assessment

no data available

## 12.6 Other adverse effects

no data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

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Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local laws.

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## SECTION 14. TRANSPORT INFORMATION

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### DOT

Classed non-hazardous for shipping.

### IMDG

Classed nonhazardous for shipping.

### IATA

Classed nonhazardous for shipping.

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## SECTION 15. REGULATORY INFORMATION

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### 15.1 SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### 15.2 SARA 313 Components

SARA 313: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

### 15.3 New Jersey Right to Know Components

This product may contain a chemical on the New Jersey Right to Know Components List.

#### CAS

1H,1H,2H,2H-Perfluorodecyl iodide

2043-53-0

### 15.4 California Prop. 65 Components

This product does not contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

## SECTION 16. OTHER INFORMATION

**Product has not been fully validated for medical applications. For research use only.**

### 16.1 Prepared by: APOLO Biochemical, Inc.

*The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. APOLO shall not be held liable for any damage resulting from handling or contact with the above product.*