

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****GHS product identifier****Product Name** Red Imaging Oil**Other means of identification****Product Code(s)** 10031500**Synonyms** None**Recommended use of the chemical and restrictions on use****Recommended Use** General Laboratory Use**Uses advised against** No information available**Supplier's details****Supplier Address**HTG Molecular Diagnostics Inc.  
3430 E. Global Loop  
Tucson, AZ 85706  
TEL: (520) 547-2827  
FAX: (520) 547-2837**Emergency telephone number****Emergency Telephone Number** CHEMTREC: 1-800-424-9300 for US/ 703-527-3887 outside US**2. HAZARDS IDENTIFICATION****Classification**

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

|                     |            |
|---------------------|------------|
| Aspiration Toxicity | Category 1 |
|---------------------|------------|

**GHS Label elements, including precautionary statements****Emergency Overview****Signal Word** Danger**Hazard Statements**

• May be fatal if swallowed and enters airways

**Appearance** Clear, Red**Physical State** Liquid.**Odor** None**Precautionary Statements****Prevention**

- None

**General Advice**

- None

**Ingestion**

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Do NOT induce vomiting

**Storage**

- Store locked up

**Disposal**

- Dispose of contents/container to an approved waste disposal plant

**Hazard Not Otherwise Classified (HNOC)**

If high pressure injection injuries occur, obtain medical attention immediately.

**Other information**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name   | CAS-No     | Weight % | Trade secret |
|-----------------|------------|----------|--------------|
| Alkanes, C14-16 | 90622-46-1 | 60-100   | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of necessary first-aid measures**

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If irritation persists, call a physician.   |
| <b>Skin Contact</b> | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.   |
| <b>Inhalation</b>   | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician. |
| <b>Ingestion</b>    | Do NOT induce vomiting. Aspiration hazard if swallowed - can enter lungs and cause damage. Immediate medical attention is required.  |

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**Most important symptoms/effects, acute and delayed****Most Important Symptoms/Effects** Irritation. Dizziness. Nausea. Headache.**Indication of immediate medical attention and special treatment needed, if necessary****Notes to Physician**

Aspiration hazard. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung edema or pneumonia. If spontaneous vomiting occurs, place the victim's head below knee level.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Keep containers and surroundings cool with water spray.

**Unsuitable Extinguishing Media** CAUTION: Use of water spray when fighting fire may be inefficient.**Specific Hazards Arising from the Chemical**

Emits toxic fumes under fire conditions. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back.

**Explosion Data****Sensitivity to Mechanical Impact**

None.

**Sensitivity to Static Discharge**

None

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Environmental Precautions****Environmental Precautions**

Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

**Methods and materials for containment and cleaning up****Methods for Containment**

Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up**

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE****Precautions for safe handling****Handling**

Wear personal protective equipment. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Avoid prolonged or repeated exposure. Keep away from open flames, hot surfaces and sources of ignition.

**Conditions for safe storage, including any incompatibilities**

|                              |  |
|------------------------------|--|
| <b>Storage</b>               | Keep container tightly closed. Store at room temperature. Keep away from oxidizing materials. Keep away from combustible material. |
| <b>Incompatible Products</b> | Strong oxidizing agents.   |

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters**

|                            |   |
|----------------------------|---|
| <b>Exposure Guidelines</b> | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
|----------------------------|---|

**Appropriate engineering controls**

|                             |  |
|-----------------------------|--|
| <b>Engineering Measures</b> | Showers<br>Eyewash stations<br>Ventilation systems |
|-----------------------------|--|

**Individual protection measures, such as personal protective equipment**

|                                 |   |
|---------------------------------|---|
| <b>Eye/Face Protection</b>      | Tightly fitting safety goggles.   |
| <b>Skin and Body Protection</b> | Chemical resistant gloves. Lab coat and/or apron.   |
| <b>Respiratory Protection</b>   | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |

|                         |   |
|-------------------------|---|
| <b>Hygiene Measures</b> | Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. |
|-------------------------|---|

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|                       |        |                       |                          |
|-----------------------|--------|-----------------------|--------------------------|
| <b>Physical State</b> | Liquid | <b>Appearance</b>     | Clear Red                |
| <b>Odor</b>           | None   | <b>Odor Threshold</b> | No information available |

| <b>Property</b>                     | <b>Values</b>      | <b>Remarks/ - Method</b> |
|-------------------------------------|--------------------|--------------------------|
| <b>pH</b>                           | No data available  | None known               |
| <b>Melting Point/Range</b>          | No data available  | None known               |
| <b>Boiling Point/Boiling Range</b>  | No data available  | None known               |
| <b>Flash Point</b>                  | 116 °C / 240 °F    | None known               |
| <b>Evaporation rate</b>             | No data available  | None known               |
| <b>Flammability (solid, gas)</b>    | No data available  | None known               |
| <b>Flammability Limits in Air</b>   |                    |                          |
| <b>upper flammability limit</b>     | No data available  |                          |
| <b>lower flammability limit</b>     | No data available  |                          |
| <b>Vapor Pressure</b>               | No data available  | None known               |
| <b>Vapor Density</b>                | No data available  | None known               |
| <b>Relative Density</b>             | No data available  | None known               |
| <b>Specific Gravity</b>             | No data available. | None known               |
| <b>Water Solubility</b>             | No data available  | None known               |
| <b>Solubility in other solvents</b> | No data available  | None known               |

|   |                   |            |
|---|-------------------|------------|
| <b>Partition coefficient: n-octanol/water</b> | No data available | None known |
| <b>Autoignition Temperature</b>               | No data available | None known |
| <b>Decomposition Temperature</b>              | No data available | None known |
| <b>Viscosity</b>                              | No data available | None known |

**Flammable Properties** Not flammable

**Explosive Properties** No data available  
**Oxidizing Properties** No data available

#### Other information

**VOC Content (%)** No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization does not occur.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

Strong oxidizing agents.

### Hazardous decomposition products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

No acute toxicity information is available for this product. Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several ingredients.

#### **Inhalation**

May cause irritation. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

#### **Eye Contact**

Irritating to eyes.

#### **Skin Contact**

May cause irritation. Prolonged skin contact may defat the skin and produce dermatitis. If product is injected into or under the skin or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high-pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

**Ingestion**

Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

**Component Information**

| Chemical Name   | LD50 Oral            | LD50 Dermal             | LC50 Inhalation        |
|-----------------|----------------------|-------------------------|------------------------|
| Alkanes, C14-16 | > 5250 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 5.8 mg/L ( Rat ) 4 h |

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Sensitization** No information available.  
**Mutagenic Effects** No information available.  
**Carcinogenicity** There are no known carcinogenic chemicals in this product.

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration Hazard** Risk of serious damage to the lungs (by aspiration)

**Numerical measures of toxicity - Product**

**Acute Toxicity** No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

**Other Adverse Effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated

**ICAO** Not regulated

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|                 |               |
|-----------------|---------------|
| <u>IATA</u>     | Not regulated |
| <u>IMDG/IMO</u> | Not regulated |
| <u>RID</u>      | Not regulated |
| <u>ADR</u>      | Not regulated |
| <u>ADN</u>      | Not regulated |

## 15. REGULATORY INFORMATION

### International Inventories

|             |          |
|-------------|----------|
| <u>TSCA</u> | Complies |
| <u>DSL</u>  | Complies |

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden Release of Pressure Hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. OTHER INFORMATION

|             |                 |                |               |                                 |
|-------------|-----------------|----------------|---------------|---------------------------------|
| <u>NFPA</u> | Health Hazard 1 | Flammability 1 | Instability 0 | Physical and Chemical Hazards - |
|-------------|-----------------|----------------|---------------|---------------------------------|

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|             |                        |                       |                          |                              |
|-------------|------------------------|-----------------------|--------------------------|------------------------------|
| <b>HMIS</b> | <b>Health Hazard</b> 1 | <b>Flammability</b> 1 | <b>Physical Hazard</b> 0 | <b>Personal Protection</b> X |
|-------------|------------------------|-----------------------|--------------------------|------------------------------|

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|                      |  |
|----------------------|--|
| <b>Prepared By</b>   | Product Stewardship<br>23 British American Blvd.<br>Latham, NY 12110<br>1-800-572-6501 |
| <b>Issuing Date</b>  | 17-Apr-2013  |
| <b>Revision Date</b> | 17-Apr-2013  |
| <b>Revision Note</b> | Initial Release.   |

**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**