Section 1. Product and Company Identification

Product Name  Idoxuridine
Product ID  I1257
Chemical Name (Synonyms)  IdU' IdUR, I UdR, IdUrd, Dendrid, (+)-5-Iodo-2'-deoxyuridine
Supplier  LKT Laboratories, Inc
545 Phalen Blvd.
St. Paul, MN 55130 USA
Ph: 651-644-8424 Fax: 651-644-8357
www.lktlabs.com - getinfo@lktlabs.com
Emergency Phone #  1-800-424-9300

Section 2. Hazards Identification

GHS Classification  Skin irritation (Category 2) H315
Eye irritation (Category 2A) H319
Germ cell mutagenicity (Category 2) H341
Reproductive toxicity (Category 2) H361
Specific target organ toxicity - single exposure (Category 3) Respiratory system, H335

GHS Label elements including precautionary statements

Pictogram

Signal word  Warning

Hazard and precautionary statements

H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H341 - Suspected of causing genetic defects.
H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust, fumes, gas, mist, vapors, spray.
P264 - Wash skin thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, eye protection, face protection.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 - If skin irritation occurs: Get medical advice/attention.
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.
P351 + P352 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P362 - Take off contaminated clothing and wash before reuse.
P353 + P335 - Store in a well-ventilated place. Keep container tightly closed.
P501 - Dispose of contents/container to an approved waste disposal plant.

HMIS Classification  Health hazard: 2
                                Chronic health hazard: *
                                Flammability: 0
                                Physical hazard: 0

NFPA Rating  Health hazard: 2
               Fire hazard: 0
               Reactivity hazard: 0

Potential Health Effects

Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.
Skin - May be harmful if absorbed through skin. Causes skin irritation.
Eyes - Causes serious eye irritation.
Ingestion - May be harmful if swallowed.
Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Substances</th>
<th>Ingredient: Title Compound</th>
<th>Percent: 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula</td>
<td>C₉H₁₁IN₂O₅</td>
<td>354.10</td>
</tr>
<tr>
<td>CAS No.</td>
<td>54-42-2</td>
<td>200-207-8</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye Contact
Flush eyes with plenty of water for at least 15 minutes and consult a physician.

Skin Contact
Wash off with soap and plenty of water. Consult a physician.

Inhalation
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5. Firefighting Measures

Flash Point
Not available.

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

Firefighting Procedures
Wear self-contained breathing apparatus for firefighting if necessary.

Unusual Fire Hazards
Carbon oxides, nitrogen oxides (NOx), hydrogen iodide.

Section 6. Accidental Release Measures

Personal Precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleanup
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Conditions
Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: -20°C

Hazardous Decomposition Products
Not available.

Other Remarks
Light sensitive.
**Section 8. Exposure Controls/Personal Protection**

**Physical State**
Solid.

**Color**
White to off-white powder.

**Boiling Point**
Not available.

**Melting Point**
164-166°C

**Solubility**
Slightly soluble in water (2 mg/ml) or acetone (1.6 mg/ml).

**Flash Point**
Not available.

**Lower explosion limit**
Not available.

**Upper explosion limit**
Not available.

**Water solubility**
Slightly soluble in water (2 mg/mL).

**Partition coefficient: n-octanol/water**
Not available.

**Relative vapor density**
Not available.

**Section 9. Physical and Chemical Properties**

**Bodily Protection**
Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection**
Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Section 10. Stability and Reactivity**

**Stability**
Stable under recommended storage conditions.

**Materials To Avoid**
Strong oxidizing agents.

**Hazardous Decomposition Products**
Not available.
Section 11. Toxicological Information

**Oral LD<sub>50</sub>**  
Mouse - > 10,000 mg/kg

**Inhalation LC<sub>50</sub>**  
Not available.

**Dermal LD<sub>50</sub>**  
Not available.

**Other information on acute toxicity**  
Not available.

**Skin corrosion/irritation**  
Not available.

**Serious eye damage/irritation**  
Not available.

**Respiratory or skin sensitization**  
Not available.

**Germ cell mutagenicity**  
In vitro tests showed mutagenic effects.

**Reproductive Toxicity**  
Suspected human reproductive toxicant.  
Damage to fetus cannot be excluded.

**Specific organ toxicity single exposure (GHS)**  
Inhalation - May cause respiratory irritation.

**Specific organ toxicity repeated exposure (GHS)**  
Not available.

**Teratogenicity**  
Not available.

**Aspiration Hazard**  
Not available.

**Synergistic effects**  
Not available.

**Additional Information**  
RTECS: YU7700000

**Signs and symptoms of exposure**  
Nausea, headache, vomiting.  
Stomach irregularities - Based on human evidence.

**Potential Health Effects**  
Inhalation - May be harmful if inhaled.  
May cause respiratory tract irritation.  
Skin - May be harmful if absorbed through skin.  
Causes skin irritation.  
Eyes - Causes serious eye irritation.  
Ingestion - May be harmful if swallowed.  
Reproductive toxicity - Suspected of causing genetic defects.  
Germ cell mutagenicity - Suspected of damaging fertility or the unborn child.

**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.  
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.  
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.  
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.

Section 12. Ecological Information

**Toxicity**  
Not available.

**Mobility in soil**  
Not available.

**PBT and vPvB assessment**  
PBT/vPvB assessment not available as chemical safety assessment not required/not
Waste Disposal
Dispose of material according to all federal, state and local regulations. Offer material to a licensed, professional waste disposal company to dispose of as unused product. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Persistence and degradability Not available.
Bioaccumulative potential Not available.

Section 13. Disposal Considerations

DOT (US) Not dangerous goods.
IATA Not dangerous goods.
IMDG Not dangerous goods.

Section 14. Transport Information

Section 15. Regulatory Information

Reach No.

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

SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components Acute health hazard, chronic health hazard.

Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components Idoxuridine CAS #: 54-42-2 Revision Date:

New Jersey Right To Know Components Idoxuridine CAS #: 54-42-2 Revision Date:

California Prop 65 Components This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Section 16. Other Information

The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.