Kit components

<table>
<thead>
<tr>
<th>Substance number</th>
<th>Description</th>
<th>Amount</th>
<th>Symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td>V395</td>
<td>IPTG</td>
<td>1</td>
<td>Xs</td>
</tr>
</tbody>
</table>

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**Promega**

**Material Safety Data Sheet**

acc. to ISO/IEC 11014

Printing date: 05/19/2009
Reviewed on: 06/15/2009

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1. **Identification of substance**

   **Trade names:** IPTG
   **Article number:** V395
   **Application of the substance:** The preparation Laboratory chemicals

   **Manufacturer/Supplier:**
   Promega Corporation
   2000 Woods Hollow Road
   Madison, WI 53711
   U.S.A.
   1-800-356-9526 or (608)-274-4430
   MSDS author: RegulatoryAffairs@promega.com
   Emergency Information:
   CHEMTREC 1-800-424-9300
   for calls originating outside the United States dial 001-703-527-3887

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2. **Composition Data on ingredients**

   **Chemical characterization:**
   CAS No.
   367-03-1 (propanoyl-β-D-ribofuranoside)
   **Identification number(s):**
   EINECS Numbers: 206-703-0

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3. **Hazard Identification**

   **Hazard description:**
   Xs Hazard

   **Information pertaining to particular dangers for man and environment:**
   Hazardful by inhalation. In contact with skin and if swallowed
   Irritating to eyes, respiratory system and skin

   **Classification system:**
   The classification was made according to the latest edition of international substances lists, and is expanded
   upon by company and technical literature data

   **NFPA ratings:**
   Health: 2
   Fire: 0
   Reactivity: 0

   **IMDS ratings:**
   Health: 2
   Fire: 0
   Reactivity: 0

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Trade name: IPFG

4 First aid measures

General Information:
Symptons of poisoning may occur after several hours; therefore medical observation for at least 8 hours after the accident.

After Inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After Skin Contact:
Immediately wash with water and soap and rinse thoroughly.

After Eye Contact:
Rinse opened eyes for several minutes under running water. If symptoms persist, consult a doctor.

After Swallowing:
Immediately call a doctor.

5 Fire fighting measures

Suitable extinguishing agents:
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment:
Self-contained breathing apparatus.

6 Accidental release measures

Person related safety precautions:
Not required.

Measures for environmental protection:
Do not allow to enter sewers or surface or ground water.

Measures for cleaning/collection:
Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

Handling:
Information for safe handling:
Through diluting.

Keep in a cool, dry place. Keep away from heat and direct sunlight.

No special precautions are necessary if used correctly.

Information about protection against explosions and fires:
No special measures required.

Storage:
Requirements to be met by users and receptacles:
No special requirements.

8 Exposure controls and personal protection

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.

Personal protective equipment:
General protective and hygienic measures:
Keep away from flammable, combustible and explosive materials. Do not work near electrical equipment.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

Respiratory equipment:
In case of fumos or fumes, use a suitable respirator. In case of intensive or longer exposure use a respirator with a filter that is independent of the concentration.

Protection glasses:
Selection of protective glasses on the basis of the penetration times, rates of diffusion and the degradation.

Wearing of gloves:
Selection of protective gloves on the basis of the penetration times, rates of diffusion and the degradation.

Eye protection:
Tightly sealed goggles.

9 Physical and chemical properties

General information:
Form:
Solid.

Color:
White.

Odor:
Relatively weak.

Change in condition:
Melting point/freezing point:
150°C (280°F).

Boiling point/burning range:
Unflammable.

Flash point:
Not applicable.

Flammability (solid, gas):
Product is not flammable.

Danger of explosion:
Product does not present explosion hazard.

Identity:
Not determined.

Solubility in / Miscibility with:
Water:
Soluble.

Organic solvents:
0.0 %

10 Stability and Reactivity

Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.

Dangerous reactions:
Reacts with strong oxidizing agents.

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Trade name: IPFG

11 Toxicological Information

Acute toxicity:
Primary irritation effects:
on the skin: irritant in skin and mucous membranes;
on the eye: irritating effect;
Sensitization: no sensitizing effect known.

12 Ecological Information

General notes:
Water hazard class 3 (self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.

13 Disposal Considerations

Products:
Recommendations:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Unlabelled packaging:
Recommendations: Disposal must be made according to official regulations.
Recommended cleaning agent: Water, if necessary with cleaning agent.

14 Transport Information

Contact Promega Safety Department for additional transportation information.

DOT regulations: Not regulated.
Hazard class: -
Land transportADR/RID (cross-border): Not regulated.
ADR/RID class: -
UN-Number: Not regulated.
Maritime transport IMDG:
IMDG Class: -
Marine pollution: No.
Air transport ICAO-111 and IATA-DGR:
ICAO/DATA Class: -

15 Regulations

State:
Section 155 (extremely hazardous substances):
Substance is not listed.
Section 131 (specific toxicological evaluation):
Substance is not listed.
TSCA (Toxic Substances Control Act):
Substance is not listed.
Preparation:
Chemicals known to cause cancer:
Substance is not listed.
Chemicals known to cause reproductive toxicity for males:
Substance is not listed.
Chemicals known to cause reproductive toxicity for females:
Substance is not listed.
Chemicals known to cause developmental toxicity:
Substance is not listed.
Specific hazard categories:
EPA (Environmental Protection Agency):
Substance is not listed.
IARC (International Agency for Research on Cancer):
Substance is not listed.
NTTP (National Toxicology Program):
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-C (National Institute for Occupational Safety and Health):
Substance is not listed.
OSHA-C (Occupational Safety & Health Administration):
Substance is not listed.
Product related hazard information:
The product has been classified and marked in accordance with directives on hazardous materials.
Hazard symbols:
No Hazard symbol.
Risk phrases:
No Risk phrases.
Safety phrases:
Do not breathe dust.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
**Material Safety Data Sheet**

**Trade name:** IPTG

<table>
<thead>
<tr>
<th>16 Other Information</th>
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<tbody>
<tr>
<td>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 commercial relationship.</td>
</tr>
<tr>
<td>Department:</td>
</tr>
<tr>
<td>Premerge Corporation</td>
</tr>
<tr>
<td>Environmental Health and Safety Department</td>
</tr>
<tr>
<td>2800 Woods Hollow Road</td>
</tr>
<tr>
<td>Madison, WI</td>
</tr>
<tr>
<td>Ph (608) 274-4330</td>
</tr>
<tr>
<td>* Data compared to the previous version altered.</td>
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