1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product code 18258012
Product name SUPERSCRIPT PLAMSID SYS WITH GATEWAY TECH (MAX EFF DH5)

Contact manufacturer
INVITROGEN CORPORATION
1600 FARADAY AVENUE
PO BOX 6482
CARLSBAD, CA 92008
760-603-7200

INVITROGEN CORPORATION
2270 INDUSTRIAL STREET
BURLINGTON, ONT
CANADA L7P 1A1
800-263-6236

GIBCO PRODUCTS
INVITROGEN CORPORATION
3175 STALEY ROAD P.O. BOX 68
GRAND ISLAND, NY 14072
716-774-6700

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimethylsulfoxide</td>
<td>67-68-5</td>
<td>3-7</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Emergency Overview
Irritating to eyes. Irritating to skin.

Form
Liquid

Principle Routes of Exposure/
Potential Health effects

- Eyes: May cause eye irritation with susceptible persons.
- Skin: May cause skin irritation in susceptible persons.
- Inhalation: No information available
- Ingestion: No information available

Specific effects
Carcinogenic effects: No information available
Mutagenic effects: No information available
Reproductive toxicity: No information available
Sensitization: No information available

Target Organ Effects: Eyes, Skin.

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4. FIRST AID MEASURES

Skin contact: Wash off immediately with plenty of water
Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Ingestion: Never give anything by mouth to an unconscious person
Inhalation: Move to fresh air
Notes to physician: Treat symptomatically

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical
Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective suit

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment
Methods for cleaning up: Soak up with inert absorbent material

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7. HANDLING AND STORAGE

Handling: No special handling advice required
Storage: Keep in properly labelled containers

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

Engineering measures: Ensure adequate ventilation, especially in confined areas
Personal protective equipment:
- Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment
- Hand protection: Protective gloves
- Eye protection: Safety glasses with side-shields
- Skin and body protection: Lightweight protective clothing
- Hygiene measures: Handle in accordance with good industrial hygiene and safety practice
- Environmental exposure controls: Prevent product from entering drains

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9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:
- Form: Liquid
Important Health Safety and Environmental Information

- Boiling point/range: °C No data available °F No data available
- Melting point/range: °C No data available °F No data available
- Flash point: °C No data available °F No data available
- Autoignition temperature: °C No data available °F No data available
- Oxidizing properties: No information available
- Water solubility: No data available

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Materials to avoid: No information available
Hazardous decomposition products: No information available
Polymerization: Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 (oral,rat/mouse)</th>
<th>LD50 (dermal,rat/rabbit)</th>
<th>LC50 (inhalation,rat/mouse)</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimethylsulfoxide</td>
<td>14500 mg/kg (Rat)</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Principle Routes of Exposure/
Potential Health effects

- Eyes: May cause eye irritation with susceptible persons.
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- Inhalation: No information available
- Ingestion: No information available

Specific effects

- Carcinogenic effects: No information available
- Mutagenic effects: No information available
- Reproductive toxicity: No information available
- Sensitization: No information available

Target Organ Effects: Eyes, Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects: No information available.
Mobility: No information available.
Biodegradation: No information available.
Bioaccumulation: No information available.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

IATA
Proper shipping name: Not classified as dangerous in the meaning of transport regulations
Hazard Class: No information available
Subsidiary Class: No information available
Packing group: No information available
UN-No: No information available

### 15. REGULATORY INFORMATION

#### International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>PICCS</th>
<th>ENCS</th>
<th>DSL</th>
<th>NDSL</th>
<th>AICS</th>
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</tr>
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</table>

#### U.S. Federal Regulations

**SARA 313**
Not regulated

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**
This product contains the following HAPs:

#### U.S. State Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts - RTK</th>
<th>New Jersey - RTK</th>
<th>Pennsylvania - RTK</th>
<th>Illinois - RTK</th>
<th>Rhode Island - RTK</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimethylsulfoxide</td>
<td>-</td>
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</tbody>
</table>

**California Proposition 65**
This product contains the following Proposition 65 chemicals:

**WHMIS hazard class:**
D2B  Toxic materials
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

### 16. OTHER INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Since Invitrogen Corporation cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

End of Safety Data Sheet