MATERIAL SAFETY DATA SHEET Page 1 of Revised 3/23/05 MUSK Replaces (None) INVITROGEN CORPORATION Printed 3/28/05 MSDS ID: PV3834

GIBCO PRODUCTS

716/774-6700

NEW ZEALAND

AUSTRALIA 1-800-331-627

800/955-6288

64-9-579-3024

2A/14 LIONEL ROAD

PENROSE AUCKLAND 1135

P.O. BOX 12-502

INVITROGEN CORPORATION

GRAND ISLAND, NY 14072

INVITROGEN CORPORATION

MOUNT WAVERLY VIC 3149

301/431-8585 (24 HOUR) 800/451-8346 (24 HOUR)

3175 STALEY ROAD P.O. BOX 68

INVITROGEN AUSTRALIA PTY LIMITED

PRODUCT AND COMPANY INFORMATION

INVITROGEN CORPORATION 1600 FARADAY AVE. CARLSBAD, CA 92008

760/603-7200

INVITROGEN LTD. 3 FOUNTAIN DRIVE

INCHINNAN BUSINESS PARK

PAISLEY UK PA4 9RF

44-141-814-6100

INVITROGEN CORPORATION 2270 INDUSTRIAL ST. BURLINGTON, ONT

CANADA L7P 1A1

905/335-2255

EMERGENCY NUMBER (SPILLS, EXPOSURES):

NON-EMERGENCY INFORMATION:

Product Name: MUSK Stock Number: PV3834

NOTE: If this product is a kit or is supplied with more than one material, please refer to the MSDS for each component for hazard information.

Product Use:

These products are for laboratory research use only and are not intended for human or animal diagnostics, therapeutic, or other clinical uses, unless otherwise stated.

Synonyms:

Not available.

#### COMPOSITION, INFORMATION ON INGREDIENTS

The following list shows components of this product classified as hazardous based on physical properties and health effects:

Component No hazardous components CAS No.

Percent

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### 3. HAZARDS IDENTIFICATION

Potential Health Effects:

Eye:

May cause irritation of the eye.

Skin:

May cause skin irritation.

Inhalation:

No toxicity expected from inhalation.

Ingestion:

Mildly irritating to mouth, throat, and stomach. Can cause abdominal discomfort.

Chronic:

No data on cancer.

#### 4. FIRST AID MEASURES

Eve:

Flush with water in an eyewash for at least 15 minutes, holding eyelids open. Remove contact lenses, clean before re-use. Obtain medical attention if symptoms develop (redness, itching, etc.).

Skin:

Wash with plenty of soap and water. Obtain medical attention if symptoms develop (redness, itching, etc.). Remove contaminated clothes, wash before re-use.

Inhalation:

Remove person to fresh air. Obtain medical attention unless effects are mild and temporary.

Ingestion:

Give plenty of water, if conscious. If vomiting occurs naturally, wash mouth out. Be prepared to induce vomiting upon a physician's advice. Obtain medical attention if symptoms develop.

Note To Physician: Treat symptomatically.

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## FIRE FIGHTING MEASURES

Flashpoint Deg C:

Not available.

Upper Flammable Limit %:

Not available.

Lower Flammable Limit %:

Not available.

Autoignition Temperature Deg C:

Not available.

Extinguishing Media:

Use means appropriate for surrounding materials.

Firefighting Techniques/Equipment:

Standard turnout gear ("bunker gear"). Positive-pressure self-contained

breathing apparatus.

Hazardous Combustion Products: Includes carbon dioxide, carbon monoxide, dense smoke.

### ACCIDENTAL RELEASE MEASURES

Accidental releases may be subject to special reporting requirements and other regulatory mandates. Refer to Section 8 for personal protection equipment recommendations.

Spill Cleanup:

Absorb spill. Common absorbent materials should be effective. Deposit in appropriate containers for removal and disposal.

### HANDLING AND STORAGE

Storage of some materials is regulated by federal, state, and/or local laws.

Storage Pressure:

Ambient

Handling Procedures:

Keep closed or covered when not in use.

Storage Procedures:

Suitable for most general chemical storage areas.

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8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits:

OSHA PEL AGCIH TWA (ppm) (ppm)

No hazardous components

Engineering Controls:

Area ventilation is generally adequate.

Personal Protective Equipment:

Eye:

Safety glasses should be the minimum eye protection.

Skin:

Gloves should be used as minimum hand protection.

Respiratory:

No respiratory protection will be needed under normal industrial operating conditions.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance/physical state: Liquid solution / suspension

Odor: No odor.

Not established.
Not established.
Not established.
Not established.
Not established.
Not established.

Specific Gravity/Density: 1.00

Octanol/water Partition Coeff: Not established.

Volatiles: Not established.

Evaporation Rate: 0.3 (BUTYL ACETATE = 1.0)

Viscosity: 0.98 cp at 20°C

10. STABILITY AND REACTIVITY

Stability:

Stable under ordinary conditions of use and storage.

Conditions to Avoid: Strong oxidizers.

Hazardous Decomposition Products:

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## STABILITY AND REACTIVITY (CONT.)

Carbon monoxide. Carbon dioxide.

Hazardous Polymerization: Not expected to occur.

## TOXICOLOGICAL INFORMATION

Acute Toxicity:

Dermal/Skin: Not determined.

Inhalation/Respiratory:
Not determined.

Oral/Ingestion: Not determined.

Target Organs: No data found.

Carcinogenicity:

NTP:

Not tested.

IARC:

Not listed.

OSHA:

Not regulated.

Other Toxicological Information

## 12. Ecological Information

Ecotoxicological Information: No ecological information available.

Environmental Fate (Degradation, Transformation, and Persistence): Bioconcentration is not expected to occur.

# 13. DISPOSAL CONSIDERATIONS

Regulatory Information: Not applicable.

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DISPOSAL CONSIDERATIONS (CONT.)

Disposal Method:

Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.

Dispose of by incineration following Federal, State, Local, or Provincial

regulations.

TRANSPORT INFORMATION

Proper Shipping Name: Not regulated.

Subsidiary Hazards:

REGULATORY INFORMATION

UNITED STATES:

This product is solely for research and development purposes only and may not be used, processed or distributed for a commercial purpose. It may only be

handled by technically qualified individuals.

Materials used in manufacturing processes which are subject to compliance with the Federal Food Drug and Cosmetic Act (FDA) are not subject to the Toxic Substance Control Act (TSCA). The TSCA research use only restriction does not apply to FDA regulated manufacturing processes nor the resulting product per 15 U.S.C. 2602(2).

Prop 65 Listed Chemicals:

PROP 65

PERCENT

No Prop 65 Chemicals.

No 313 Chemicals

CANADA:

DSL/NDSL:

Not determined.

COMPONENT

WHMIS Classification

No hazardous components

EUROPEAN UNION:

PRODUCT RISK PHRASES:

None assigned.

PRODUCT SAFETY PHRASES:

Not applicable.

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REGULATORY INFORMATION (CONT.)

PRODUCT CLASSIFICATION:

N/A

EINECS Number

Component

No hazardous components

#### OTHER INFORMATION

HMIS Rating 0-4:

Not determined. FIRE: HEALTH: Not determined. REACTIVITY: Not determined.

Abbreviations

 ${\rm N/A}$  - Data is not applicable or not available SARA - Superfund and Reauthorization Act

HMIS - Hazard Material Information System

WHMIS - Workplace Hazard Materials Information System

NTP - National Toxicology Program

OSHA - Occupational Health and Safety Administration

IARC - International Agency for Research on Cancer PROP 65 - California Safe Drinking Water and

Toxic Enforcement Act of 1986

EINECS - European Inventory of Existing Commercial

Chemical Substances

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 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.