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FREUNDS COMPLETE					Replaces	9/05/03
INVITROGEN CORPORATION					Printed	9/25/03
MSDS ID: 15721						

1. PRODUCT AND COMPANY INFORMATION

INVITROGEN	CORPORATION
1600 FARADA	AY AVE.
CARLSBAD, (CA 92008
760/603-720	00

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

INVITROGEN CORPORATIONINVITROGEN CORPORATION3 FOUNTAIN DR.P.O. BOX 12-502INCHINNAN BUSINESS PARKPENROSEPAISLEY, PA4 9RFAUCKLAND 1135SCOTLANDNEW ZEALAND44-141 814-610064-9-579-3024

INVITROGEN CORPORATION 2270 INDUSTRIAL ST. BURLINGTON, ONT CANADA L7P 1A1 905/335-2255

EMERGENCY NUMBER (SPILLS, E	EXPOSURES):	301/431-8585	(24 HOUR)
		800/451-8346	(24 HOUR)
NON-EMERGENCY INFORMATION:		800/955-6288	

Product Name: FREUNDS COMPLETE Stock Number: 15721

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, therpeutic, or other clinical uses.

Synonyms: Not available.

2. COMPOSITION, INFORMATION ON INGREDIENTS

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

Component	CAS No.	Percent
MINERAL OIL	8012-95-1	60 - 100

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HAZARDS IDENTIFICATION

3

Potential Health Effects:

Eye: Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.

Skin:

Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Inhalation:

Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Other possible symptoms include; wheezing and coughing due to pulmonary edema (fluid build-up in lungs). 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

Eye:

Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin:

Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Inhalation:

Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.

Ingestion:

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FIRST AID MEASURES (CONT.)

Severely irritating. Do not induce vomiting. Seek medical attention immediately. Drink 2 glasses of water or milk to dilute.

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Note To Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flashpoint Deg C:

Upper Flammable Limit %:	>150
opper Frannabie Limit "	Not available.
Lower Flammable Limit %:	
	Not available.
Autoignition Temperature Deg C:	Not available.

4

Extinguishing Media:

Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do Not direct a stream of water into the hot burning liquid. Use water spray/fog for cooling.

Firefighting Techniques/Equipment:

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

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

6. 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:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider

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6. ACCIDENTAL RELEASE MEASURES (CONT.)

the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

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

Storage Pressure: Ambient

Handling Procedures: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Keep closed or covered when not in use.

Storage Procedures: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Suitable for most general chemical storage areas.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits:

	OSHA PEL	AGCIH TWA
Component	(ppm)	(ppm)
MINERAL OIL	5 MG/CU M	5 MG/CU M

Engineering Controls: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Personal Protective Equipment:

Eye:

An eye wash station must be available where this product is used. Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

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8. EXPOSURE CONTROLS, PERSONAL PROTECTION (CONT.)

Skin:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Have a safety shower available.

Respiratory:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/physical state:	Clear. Liquid.
Odor:	No odor.
Boiling Point (C):	>100 C
Melting Point (C):	~ -18C
Solubility in water:	Not soluble
pH:	N/A
Vapor Pressure:	<0.5 mmHg
Vapor Density:	>1
Specific Gravity/Density:	Not established.
Octanol/water Partition Coeff:	Not established.
Volatiles:	Not established.
Evaporation Rate:	Not established.
Viscosity:	Not established.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Strong oxidizing agents. High temperatures.

Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide.

Hazardous Polymerization: Hazardous polymerization will not occur.

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Dermal/Skin: Not determined.

Inhalation/Respiratory: Not determined.

Oral/Ingestion: >24 G/KG

Target Organs: Lungs.

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.

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.

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14. TRANSPORT INFORMATION

Proper Shipping Name: Not Determined. Subsidiary Hazards:

15. REGULATORY INFORMATION

UNITED STATES:

TSCA:

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.

Prop 65 Listed Chemicals: PROP 65 PERCENT No Prop 65 Chemicals.

No 313 Chemicals

CANADA:

DSL/NDSL: Not determined.

COMPONENT MINERAL OIL WHMIS Classification Not classified as hazardous.

EUROPEAN UNION:

PRODUCT RISK PHRASES:					
PRODUCT SAFETY PHRASES:	None assigned. Not applicable.				
	Not classified as hazardous				
	EINECS				

Component MINERAL OIL EINECS Number 232-384-2

16. OTHER INFORMATION

HMIS Rating 0-4: FIRE: Not determined. HEALTH: Not determined.

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16 OTHER INFORMATION (CONT.)

REACTIVITY: Not determined.

Abbreviations

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.