



# MATERIAL SAFETY DATA SHEET

## MGB Alert® Primers

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier 800332 MGB Alert® BK Virus Primers ASR 800344 MGB Alert® CMV Q Primers ASR 800352 MGB Alert® CMV Primers ASR 800334 MGB Alert® EBV Primers ASR 800337 MGB Alert® Enterovirus Primers ASR 800348 MGB Alert® HSV Primers ASR 800354 MGB Alert® HSV 1 & 2 Primers ASR 800338 MGB Alert® HHV-6 Primers ASR 800306 MGB Alert® hMPV Primers ASR 800340 MGB Alert® N1 Primers ASR 800341 MGB Alert® N1-C Primers ASR 800342 MGB Alert® N2 Primers ASR 800346 MGB Alert® N2-B Primers ASR 800308 MGB Alert® MS2 Primers ASR				[WHMIS Classification] n/a	
Product Use Real-time PCR primer mix solution.					
Manufacturer's Name Nanogen, Inc.			Supplier's Name Nanogen, Inc.		
Street Address 10398 Pacific Center Court			Street Address 10398 Pacific Center Court		
City San Diego		State CA	City San Diego		State CA
Postal Code 92121	Emergency Telephone ( 858 ) 410 4600		Postal Code 92121	Emergency Telephone ( 858 ) 410 4600	
Date MSDS Prepared November 14, 2008		MSDS Prepared By Nanogen Technical Services		Phone Number (877) 626-6436	

### SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients ( <i>specific</i> )	%	CAS Number	LD <sub>50</sub> of Ingredient ( <i>specify species and route</i> )	LC <sub>50</sub> of Ingredient ( <i>specify species</i> )
n/a				

[Emergency Overview]

Skin Contact       Skin Absorption       Eye Contact       Inhalation       Ingestion



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### SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry Inhalation, ingestion, skin contact, and/or eye contact.
WHMIS Symbols [Optional, not required under WHMIS] n/a
Potential Health Effects <b>Skin Contact:</b> May cause irritation to skin. Symptoms include redness, itching, and pain. <b>Eye Contact:</b> Causes irritation, redness, and pain. <b>Inhalation:</b> May cause irritation. Symptoms may include coughing, shortness of breath. <b>Ingestion:</b> May be harmful if swallowed.

### SECTION 4 — FIRST AID MEASURES

<b>Skin Contact</b> May cause irritation to skin. Symptoms include redness, itching, and pain. Wash area with water.
<b>Eye Contact</b> Causes irritation, redness, and pain. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
<b>Inhalation</b> May cause irritation. Symptoms may include coughing, shortness of breath. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b> May be harmful if swallowed.

### SECTION 5 — FIRE FIGHTING MEASURES

Flammable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, under which conditions? n/a	
Means of Extinction n/a		
Flashpoint (° C) and Method n/a	Upper Flammable Limit (% by volume) n/a	Lower Flammable Limit (% by volume) n/a
Autoignition Temperature (°C) n/a	Explosion Data — Sensitivity to Impact n/a	Explosion Data — Sensitivity to Static Discharge n/a
Hazardous Combustion Products None identified.		
[NFPA] n/a		

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures n/a
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## MGB Alert® Primers

### SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment Protect against physical damage.
Storage Requirements Observe storage conditions, all warnings and precautions listed for the product.

### SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits <input type="checkbox"/> ACGIH TLV <input type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (specify)
Specific Engineering Controls (such as ventilation, enclosed process) None.
Personal Protective Equipment <input checked="" type="checkbox"/> Gloves <input type="checkbox"/> Respirator <input checked="" type="checkbox"/> Eye <input type="checkbox"/> Footwear <input checked="" type="checkbox"/> Clothing <input type="checkbox"/> Other
If checked, please specify type Standard laboratory protective clothing: aprons or lab coats and gloves. Use chemical safety goggles.

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid	Odor and Appearance Oderless, colorless	Odor Threshold (ppm) n/a
Specific Gravity n/a	Vapor Density (air = 1) n/a	Vapor Pressure (mmHg) n/a
Evaporation Rate n/a	Boiling Point (° C) n/a	Freezing Point (° C) n/a
pH n/a	Coefficient of Water/Oil Distribution n/a	[Solubility in Water] Soluble

### SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions? Stable under ordinary conditions of use and storage.
Incompatibility with Other Substances <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, which ones? n/a
Reactivity and under what conditions? n/a	
Hazardous Decomposition Products n/a	



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### SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure None.	
Effects of chronic exposure None.	
Irritancy of Product None.	
Skin sensitization None.	Respiratory sensitization None.
Carcinogenicity-IARC None.	Carcinogenicity - ACGIH None.
Reproductive toxicity None.	Teratogenicity None.
Embryotoxicity None.	Mutagenicity None.
Name of synergistic products/effects None.	

### SECTION 12 — ECOLOGICAL INFORMATION

[Aquatic Toxicity] n/a
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### SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal Dispose in accordance with federal, state and local requirements.
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### SECTION 14 — TRANSPORT INFORMATION

Not regulated.
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## MGB Alert® Primers

### SECTION 15 — REGULATORY INFORMATION

Special Shipping Information n/a	
PIN n/a	
TGD n/a	[DOT] n/a
[IMO] n/a	[CAO] n/a
[WHIMSClassification] n/a	[OSHA] n/a
[SERA] n/a	[TSCA] n/a
<i>This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.</i>	

### SECTION 16 — OTHER INFORMATION

According to Title 29, US Code of Federal Regulations, Part 1910.1200 paragraph (g), only the hazardous chemicals found in a product in quantities of 1% or greater and/or 0.1% or greater if the chemical is a carcinogen are required to be listed in Material Safety Data Sheets (MSDS). MGB Alert® primers do not contain hazardous nor carcinogenic chemicals greater than these amounts.

**Date of issue:** 11/19/08

**Notice to reader:** The information above is believed to be accurate and represents the best information available to us. However neither the above named supplier nor any of its subsidiaries assume any liability for the accuracy or completeness of the information. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Nanogen be liable for any claims, losses or damages of any third party for loss of profits or any special, indirect, incidental, consequential or exemplary damages.