



120 Centennial Ave  
Piscataway  
NJ 08854, USA

## Material Safety Data Sheet

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Email	info@genscript.com
Date updated	05 /01/ 2008

### Section 1-Product information

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Product name	MDCK
Product Cat. No.	M0029

### Section 2-Composition / information on ingredients

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Substance/Preparation	Substance.
Ingredient Name	MDCK
CAS No.	None
Molecular Formula	No.

### Section 3- Hazards Identification

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Emergency Overview	
Caution	Readily absorbed through skin. Target organ(s): Eyes. Skin.
HMIS Rating	
Health	0
Flammability	0
Reactivity	0
NFPA Rating	
Health	0
Flammability	0
Reactivity	0

### Section 4- First-aid measures

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First-Aid measures	
Inhalation	If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
Ingestion	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Skin Contact	In case of contact, immediately wash skin with soap and copious amounts of water.
Eye Contact	In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.
Aggravating conditions	Repeated or prolonged exposure is not known to aggravate medical condition.

### Section 5- Fire-fighting measures

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Flammability of the Product	May be combustible at high temperature.
Extinguishing Media Suitable	Small Fire: Use DRY chemical powder. Larger Fire: Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
Hazardous thermal (de)composition	Combustible liquid. Emits toxic fumes under fire conditions.
Special fire-fighting procedures	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Protection of fire-fighters	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### Section 6- Accidental release measures

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Personal precautions	Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
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Small Spill and Leak	Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.
Large Spill and Leak	Avoid contaminating sewers and waterways with this material.

## Section 7-Handling and storage

Handling	Do not breathe vapor. Avoid contact with DMSO solutions containing toxic materials or materials with unknown toxicological properties. Dimethyl sulfoxide is readily absorbed through skin and may carry such materials into the body. Avoid prolonged or repeated exposure.
Storage	Keep tightly closed. Store in a cool dry place.
Packaging materials	
Recommended use	Use original container

## Section 8-Exposure controls/personal protection

Engineering measures	Safety shower and eye bath. Mechanical exhaust required.
Hygiene measures	Wash contaminated clothing before reuse. Wash thoroughly after handling.
Personal protective equipment	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Hand: Compatible chemical-resistant gloves. Eye: Chemical safety goggles. Skin-Specific: Chemical resistant apron. Protective Clothing (Pictograms):

## Section 9- Physical and Chemical Properties

Appearance	
Physical State	Liquid
Property	
Molecular Weight	Not available
pH	Not available
BP/BP Range	Not available
MP/MP Range	Not available
Freezing Point	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Saturated Vapor Conc.	Not available
SG/Density	Not available
Bulk Density	Not available
Odor Threshold	Not available
Volatile%	Not available
VOC Content	Not available
Water Content	Not available
Solvent Content	Not available
Evaporation Rate	Not available
Viscosity	Not available
Surface Tension	Not available
Partition Coefficient	Not available
Decomposition Temp.	Not available
Flash Point	Not available
Explosion Limits	Not available
Flammability	Not available.
Autoignition Temp	Not available.
Refractive Index	Not available.
Optical Rotation	Not available.
Miscellaneous Data	Not available.
Solubility	Not available.

## Section 10- Stability and reactivity

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Stability	The product is stable.
Conditions to avoid	Strong oxidizing agents.
Hazardous Decomposition Products	Hazardous Decomposition Products: Nature of decomposition products not known.
Hazardous Exothermic Reaction	Methyl sulfoxide (DMSO) undergoes a violent exothermic reaction on mixing with copper wool and trichloroacetic acid. On mixing with potassium permanganate it will flash instantaneously. It reacts violently with: acid halides, cyanuric chloride, silicon tetrachloride, phosphorus trichloride and trioxide, thionyl chloride, magnesium perchlorate, silver fluoride, methyl bromide, iodine pentafluoride, nitrogen periodate, diborane, sodium hydride, and perchloric and periodic acids. When heated above its boiling point methyl sulfoxide degrades giving off formaldehyde, methyl mercaptan, and sulfur dioxide.
Hazardous Polymerization	Will not occur

## Section 11- Toxicological information

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Skin irritation	Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Readily absorbed through skin. Eye Contact: May cause eye irritation.
Acute toxicity	Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract. Ingestion: May be harmful if swallowed. LD50: Not available LC50: Not available
Chronic toxicity	Repeated or prolonged exposure is not known to aggravate medical condition.
Other Toxic Effects on Humans	Not available
Carcinogenic effects	Not available
Mutagenic effects	Not available
Reproduction toxicity	Not available
Teratogenic effects	Not available

## Section 12- Ecological information

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Ecotoxicity	Not available
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.

## Section 13- Disposal considerations

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Methods of disposal; Waste of residues;	Contact a licensed professional waste disposal service to dispose of this material. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.
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## Section 14- Transport information

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Land - Road/Railway	This substance is considered to be non-hazardous for transport.
ADR/RID Class	
Sea IMDG Class	Not controlled under IMDG
Air IATA-DGR Class	Non-hazardous for air transport.
Special Provisions for Transport	Not applicable

## Section 15- Regulatory information

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EU Regulations	This product is not classified according to the EU regulations.
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Risk Phrases	
U.S. Federal Regulations	<p>TSCA: No products were found.</p> <p>SARA 302/304/311/312 extremely hazardous substances: No products were found.</p> <p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 302/304/311/312 hazardous chemicals: No products were found.</p> <p>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.</p> <p>SARA 313 toxic chemical notification and release reporting: No products were found.</p> <p>Clean Water Act (CWA) 307: No products were found.</p> <p>Clean Water Act (CWA) 311: No products were found.</p> <p>Clean air act (CAA) 112 accidental release prevention: No products were found.</p> <p>Clean air act (CAA) 112 regulated flammable substances: No products were found.</p> <p>Clean air act (CAA) 112 regulated toxic substances: No products were found.</p>
HCS Classification	Readily absorbed through skin. Target organ(s):Eyes. Skin.(United States)
State Regulations	Not controlled under WHMIS (Canada)

### **Section 16- Other information**

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GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.