

# Safety Data Sheet

Control Number: 907-036

RISH™ Cytomegalovirus (CMV) Probe, RI0011, BRA0011

RISH™ DNA Positive Control Probe, BRA4026

RISH™ DNA Negative Control Probe, BRA4027

January 22, 2018

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## 1. Product and Company Identification

<b>Product(s)</b>	RISH™ Cytomegalovirus (CMV) Probe (RI0011, BRA0011) RISH™ DNA Positive Control Probe (BRA4026) RISH™ DNA Negative Control Probe (BRA4027)
<b>Related Product Kit</b>	Not applicable
<b>Intended Use &amp; Restrictions</b>	Immunohistochemistry reagent intended for use by professional laboratory personnel that have been properly trained in its use.
<b>Company Information</b>	Biocare Medical, LLC 60 Berry Drive Pacheco, CA 94553 United States Tel: +1 800-799-9499 (7AM–5PM, PST, Mon-Fri) Fax: +1 925-603-8080 Web: www.biocare.net
<b>24-Hour Emergency Contact</b>	CHEMTREC +1 800-424-9300 (USA and Canada only) +1 703-527-3887 (all other countries)

## 2. Hazards Identification

**Emergency Overview** Harmful solution containing formamide; may be toxic.

Avoid contact with eyes and skin.  
Wear gloves, lab coat, and eye protection.

**OSHA Hazards** Target Organ Effect, Irritant, Teratogen, Reproductive hazard, Mutagen

Target Organs: Blood, Central nervous system, Liver, Kidney

**GHS Classification**  
**Signal words, Symbol,**  
**Hazard &**  
**Precautionary**  
**Statements**



Danger

Acute toxicity, Inhalation (Category 3)  
Serious eye damage (Category 1)  
Germ cell mutagenicity (Category 1B)  
Reproductive toxicity (Category 1B)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)  
Acute aquatic toxicity (Category 3)

Hazard statement(s)  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H331 Toxic if inhaled.  
H340 May cause genetic defects.  
H360 May damage fertility or the unborn child.  
H402 Harmful to aquatic life.

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### Precautionary statement(s)

P201 Obtain special instructions before use.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if

present and easy to do. Continue rinsing.

P311 Call a POISON CENTER or doctor/ physician.

### Potential Health Effects

**Skin Contact** May be harmful if exposed to skin. Cause skin irritation. May cause itching, redness or inflammation.

**Eye Contact** May be harmful if exposed to eyes. Causes cause eye irritation. May cause watering eyes, stinging or burning sensation.

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation. May cause headache, dizziness, nausea or coughing.

**Ingestion** May be harmful if swallowed. May cause irritation of gastrointestinal tract, nausea, or vomiting.

See Section 11: Toxicological Information for additional information.

**Environmental Effects** Toxic to aquatic life.

See Section 12: Ecological Information for additional information.

## 3. Composition / Information on Ingredients

Chemical Name	Synonyms	% Composition	CAS Number
Formamide	Formic amide	<60%	75-12-7
Sodium lauryl sulphate	SDS	<5%	151-21-3

Note: It has been determined that the remaining ingredients of this product are not classified as hazardous according to the Federal OSHA Hazardous Communication Standard (29 CFR 1910.1200) or the Globally Harmonized System of Classification and Labeling of Chemicals.

## 4. First Aid Measures

**General Advice** Avoid further exposure to product. Consult a physician.

**In case of skin contact** Wash exposed area with soap and plenty of water. Remove any contaminated clothing. Seek medical attention.

**In case of eye contact** Wash eyes with plenty of water for at least 15 minutes. Have victim remove contact lenses. Be sure to wash under eyelids. Seek medical attention.

**If inhaled** Remove victim to well-ventilated area. If victim is not breathing, give artificial respiration. Seek medical attention.

**If swallowed** If victim is conscious, rinse mouth with water. Do not give anything to an unconscious victim. Seek medical attention.

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### 5. Fire Fighting Measures

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<b>Suitable Extinguishing Media</b>	Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Use extinguisher media appropriate for surrounding fire.
<b>Special Protective Equipment for Firefighters</b>	Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.
<b>Special Exposure Hazards</b>	Avoid inhalation of fumes, which may be toxic or irritating.

### 6. Accidental Release Measures

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<b>Personal Precautions</b>	Use of personal protective equipment is recommended as described in Section 8. Isolate hazard area and deny entry to unprotected personnel.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.
<b>Methods for containment and clean up</b>	Small spills may be contained and cleaned-up with paper towels or absorbent pads. Absorb large spills with sand or vermiculite and place in a closed container for waste disposal. Avoid physical contact during removal.

### 7. Handling and Storage

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<b>Precautions for Safe Handling</b>	Avoid contact with eyes, skin and clothing. Do not ingest. Wash hands thoroughly after use.
<b>Conditions for Safe Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area.

### 8. Exposure Controls / Personal Protection

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<b>Permissible Exposure Limits</b>	USA ACGIH Threshold Limit Values (Formamide): TWA 10 ppm USA OSHA – Table Z-1 Limits for Air Contaminants – 1910.1000 (Formamide): TWA 20 ppm, 30 mg/m <sup>3</sup> ; STEL 30 ppm, 45 mg/m <sup>3</sup> USA NIOSH Recommended Exposure Limits (Formamide): TWA 10 ppm, 15 mg/m <sup>3</sup>
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**Engineering Controls** No special controls needed.

#### Personal Protective Equipment

<b>Eye Protection</b>	Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.
<b>Skin Protection</b>	Use chemically resistant gloves and a lab coat with sleeves.
<b>Respiratory Protection</b>	Exceeding exposure limits is unlikely during normal usage. However, if irritating vapors are produced, respiratory protection is recommended. Attempt to reduce exposure levels to an acceptable range.
<b>General Hygiene Measures</b>	Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling and before eating or drinking.

### 9. Physical and Chemical Properties

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**Appearance** Clear, colorless solution

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<b>Odor</b>	None
<b>pH (as supplied)</b>	No data available
<b>Melting point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Flammability</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Specific gravity</b>	No data available
<b>Solubility (in water)</b>	Soluble
<b>Partition coefficient (n-octanol/water)</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available

## 10. Stability and Reactivity

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<b>Chemical Stability</b>	Stable under recommended storage conditions (see Section 7).
<b>Conditions to avoid</b>	None identified.
<b>Materials to avoid</b>	Oxidizing agents, acids, bases.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions: carbon monoxide, carbon dioxide, nitrogen oxides.
<b>Possibility of hazardous reactions</b>	None identified.

## 11. Toxicological Information

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<b>Acute dose effects</b>	Formamide: LD50 Oral – rat – 5577 mg/kg LC50 Inhalation – rat – 6h – 3900 ppm LD50 Dermal – rabbit – 17,000 mg/kg
<b>Repeat dose effects</b>	No data available
<b>Skin irritation</b>	No data available
<b>Skin and respiratory sensitization</b>	Formamide: Did not cause sensitization on laboratory animals
<b>Eye irritation</b>	Formamide: Eyes – rabbit – Severe eye irritation
<b>Carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, potential, known, anticipated, or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Mutagenicity</b>	Formamide: in vivo tests showed mutagenic effects
<b>Reproductive effects</b>	Formamide: Reproductive toxicity – rat – oral; may cause reproductive

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disorders.

**Developmental effects** Formamide: Developmental toxicity – rat – skin; may cause congenital malformation in the fetus, presumed human reproductive toxicant

**Target organ effects** No data available  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated at product concentrations.

## 12. Ecological Information

<b>Ecotoxicity</b>	Formamide: Toxicity to fish LC50 - <i>Leuciscus idus</i> (Golden orfe) - > 4,600 - < 9,300 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates EC50 - <i>Daphnia magna</i> (Water flea) - > 500 mg/l - 48 h Toxicity to algae - <i>Desmodesmus subspicatus</i> (green algae) – 1,141 mg/l - 72 h Toxicity to bacteria - <i>Pseudomonas putida</i> - > 10,000 mg/l - 17 h
<b>Persistence and degradability</b>	Readily biodegradable, according to appropriate OECD test
<b>Bioaccumulation/accumulation</b>	No data available
<b>Mobility in environmental media</b>	No data available
<b>Other hazardous effects</b>	No data available

## 13. Disposal Considerations

<b>Product</b>	Disposal should be in accordance with applicable national, state, and local laws and regulations. Local regulations may be more stringent than national or state requirements. Verify local and state regulations before discharging into public sewers or landfills. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.
<b>Contaminated packaging</b>	Dispose of as unused product.

## 14. Transportation Information

<b>Proper shipping name</b>	Not applicable
<b>Technical name</b>	Not applicable
<b>Hazard class</b>	Not applicable
<b>Identification number</b>	Not applicable
<b>Packing group</b>	Not applicable
<b>DOT (US)</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>IATA</b>	Not regulated
<b>TDG</b>	Not regulated

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## 15. Regulatory Information

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### Inventory Status

**United States (TSCA)** All ingredients are on the inventory or exempt from listing.

**Canada (DSL / NDSL)** All ingredients are on the inventory or exempt from listing.

**SARA 302 Components** No chemicals in this product are subject to reporting requirements.

**SARA 313 Components** No chemicals in this product are subject to reporting requirements.

**SARA 311/312 Hazards** Acute health hazard, Chronic health hazard

**California Prop. 65 components** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

## 16. Other Information

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**Sources and Suitability** The above information was obtained from sources available at the time of revision and believed to be accurate and reliable. The information included is not intended to be all inclusive and should only be used as a guide. Biocare shall not be held liable for any damage resulting from use, handling, or contact with the above product.

**Revision Date** January 22, 2018  
(All SDS's before this date should be discarded.)

**Replaces Revision** June 16, 2015. This SDS has been updated to reflect current hazard information and product formulations.

**Note: Before using this product, please visit the Biocare Medical website at <http://biocare.net> for the current version of this SDS.**