

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

<b>Product form</b>	: Mixture
<b>Product name</b>	: RINGER'S SOLUTION (1/4 STRENGHT)
<b>Product code</b>	: BR001
<b>Product group</b>	: Trade product

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Main use category	: Industrial use, Professional use
Use of the substance/mixture	: Microbiological control

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

BIOKAR DIAGNOSTICS - SOLABIA GROUP  
 Rue des Quarante Mines  
 ZAC de Ther - Allonne  
 P.O. Box 10245  
 60002 Beauvais Cedex - FRANCE  
 T 0033 3 44 14 33 33 - F 0033 3 44 14 33 34  
[info.fds@solabia.fr](mailto:info.fds@solabia.fr) - [www.biokar-diagnostics.fr](http://www.biokar-diagnostics.fr)

#### 1.4. Emergency telephone number

No additional information available

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

#### 2.2. Label elements

Safety data sheet available on request.

#### 2.3. Other hazards

**Adverse physicochemical, human health and environmental effects** : May cause moderate irritation to the eyes. Repeated or prolonged contact may cause skin irritation. May be harmful if swallowed and enters airways.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Calcium chloride	(CAS-No.) 10043-52-4 (EC-No.) 233-140-8 (EC Index-No.) 017-013-00-2	4,75	Eye Irrit. 2, H319

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**First-aid measures after inhalation** : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

# RINGER'S SOLUTION (1/4 STRENGTH)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

<b>First-aid measures after skin contact</b>	: Wash with plenty of water/...
<b>First-aid measures after eye contact</b>	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
<b>First-aid measures after ingestion</b>	: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** : Water spray. Dry powder. Foam.

### 5.2. Special hazards arising from the substance or mixture

**Hazardous decomposition products in case of fire** : Toxic fumes may be released.

### 5.3. Advice for firefighters

**Protection during firefighting** : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

**Protective equipment** : Wear personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

**Emergency procedures** : Ventilate spillage area.

**Measures in case of dust release** : Avoid raising dust. Avoid breathing dust.

#### 6.1.2. For emergency responders

**Protective equipment** : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

### 6.3. Methods and material for containment and cleaning up

**For containment** : Collect spillage.

**Methods for cleaning up** : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Minimize generation of dust.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Precautions for safe handling** : Ensure good ventilation of the work station. Do not breathe dust. Wear personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

**Hygiene measures** : Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions** : Keep container tightly closed.

**Storage temperature** : 2 - 30 °C

**Packaging materials** : glass. Plastic.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

**Appropriate engineering controls** : Ensure good ventilation of the work station.

# RINGER'S SOLUTION (1/4 STRENGHT)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

<b>Materials for protective clothing</b>	: Wear suitable protective clothing
<b>Hand protection</b>	: Wear suitable gloves
<b>Eye protection</b>	: Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product
<b>Skin and body protection</b>	: Wear suitable protective clothing
<b>Respiratory protection</b>	: Suitable respiratory equipment

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	: Solid
<b>Appearance</b>	: tablet.
<b>Colour</b>	: white.
<b>Odour</b>	: No data available
<b>Odour threshold</b>	: No data available
<b>pH</b>	: No data available
<b>Relative evaporation rate (butylacetate=1)</b>	: No data available
<b>Melting point</b>	: No data available
<b>Freezing point</b>	: No data available
<b>Boiling point</b>	: No data available
<b>Flash point</b>	: No data available
<b>Auto-ignition temperature</b>	: No data available
<b>Decomposition temperature</b>	: No data available
<b>Flammability (solid, gas)</b>	: No data available
<b>Vapour pressure</b>	: No data available
<b>Relative vapour density at 20 °C</b>	: No data available
<b>Relative density</b>	: No data available
<b>Solubility</b>	: Soluble in water.
<b>Log Pow</b>	: No data available
<b>Viscosity, kinematic</b>	: No data available
<b>Viscosity, dynamic</b>	: No data available
<b>Explosive properties</b>	: No data available
<b>Oxidising properties</b>	: No data available
<b>Explosive limits</b>	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Moisture.

### 10.5. Incompatible materials

Strong acids. Boron (B). calcium oxide. zinc. VINYL METHYL ETHER. Bromine trifluoride.

### 10.6. Hazardous decomposition products

No additional information available

# RINGER'S SOLUTION (1/4 STRENGHT)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	: Not classified No data available
<b>Skin corrosion/irritation</b>	: Not classified No data available
<b>Serious eye damage/irritation</b>	: Not classified No data available
<b>Respiratory or skin sensitisation</b>	: Not classified No data available
<b>Germ cell mutagenicity</b>	: Not classified No data available
<b>Carcinogenicity</b>	: Not classified No data available
<b>Reproductive toxicity</b>	: Not classified No data available
<b>STOT-single exposure</b>	: Not classified No data available
<b>STOT-repeated exposure</b>	: Not classified No data available
<b>Aspiration hazard</b>	: Not classified No data available

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Ecology - general** : No data available.

#### 12.2. Persistence and degradability

**Persistence and degradability** No data available.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Not established.

#### 12.4. Mobility in soil

**Ecology - soil** No data available.

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

**Other adverse effects** : No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Product/Packaging disposal recommendations** : Dispose in a safe manner in accordance with local/national regulations. Incineration, disposal or recycling at specific offsite provider.

**Ecology - waste materials** : Avoid release to the environment.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

Not regulated for transport

#### 14.2. UN proper shipping name

<b>Proper Shipping Name (ADR)</b>	: Not applicable
<b>Proper Shipping Name (IMDG)</b>	: Not applicable
<b>Proper Shipping Name (IATA)</b>	: Not applicable
<b>Proper Shipping Name (ADN)</b>	: Not applicable

# RINGER'S SOLUTION (1/4 STRENGTH)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

**Proper Shipping Name (RID)** : Not applicable

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable

#### IATA

Transport hazard class(es) (IATA) : Not applicable

#### ADN

Transport hazard class(es) (ADN) : Not applicable

#### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

**Packing group (ADR)** : Not applicable

**Packing group (IMDG)** : Not applicable

**Packing group (IATA)** : Not applicable

**Packing group (ADN)** : Not applicable

**Packing group (RID)** : Not applicable

### 14.5. Environmental hazards

**Dangerous for the environment** : No

**Marine pollutant** : No

**Other information** : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

No data available

#### - Transport by sea

No data available

#### - Air transport

No data available

#### - Inland waterway transport

Carriage prohibited (ADN) : No

Not subject to ADN : No

#### - Rail transport

Carriage prohibited (RID) : No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

No additional information available

# RINGER'S SOLUTION (1/4 STRENGHT)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Indication of changes:

	Supersedes	Added	
	Revision date	Added	
	Date of issue	Modified	

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation.

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*