



MODERNWATER

# QUICKCHEK SRB KIT SAFETY DATA SHEET

**Issue Date:** 06/17/15

**Version number:** 1

**Supersedes/Cancel:** N/A

## 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

Quick Chek SRB Single Packs, Ten Packs and Econo Packs

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

Bottle A is used to contain SRB bacteria for use in the assay. Bottle B is used to wash the diatomaceous cake. Lysing is used to lyse cells so that APS-reductase can be filtered in the assay. Reagent Vials is used for the reaction. Wash tubes (yellow tube) is used to wash the device after the reagent vials, bacteria sample is mixed to make sure that free SRB Antibody AP conjugate is not left in the dry. Chromogen tube is used to give higher blue intensities in the presence of APS-reductase

### 1.3 Details of the supplier of the substance or mixture

Modern Water, Inc.  
15 Reads Way, Suite 100  
New Castle, DE 19720  
Phone: (302) 669-6900

### 1.4 Emergency Telephone

Please call (302) 669-6900 or (855) 637-6426

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## 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture [CLP classification]

2.1.1 Bottle A – fine powder of diatomaceous earth

2.1.2 Bottle B, Wash Solution Tube (yellow tip), Recon Tube (white tip) and Chromogen tube(white tube with blue tip) are all liquids.

2.1.3 Lysing bottle and Test Vials are lyophilized products (solid)

### 2.2 Label elements

**Pictogram**



**Signal Word**

Warning

**Hazard Statement(s)**

H315 May cause skin irritation.

H319 May cause eye irritation.

H335 May cause respiratory irritation. (Bottle A only)

**Precautionary Statement(s)**

P280 Wear protective gloves/eye protection

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

### 2.3 Other hazard information:

None.

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## 3 INFORMATION ON THE INGREDIENTS

### 3.2 Mixtures

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**3.2.1 Common in all components except bottle A and BCIP**

<b>Component</b>	<b>CAS No.</b>	<b>Classification</b>	<b>Concentration</b>
Tris HCl	1188-53-1	None	<1%, in Lysing <=10%
Tris Base	77-86-1	None	<1%, in Lysing <=5%

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**3.2.2 Chromogen Tube**

<b>Component</b>	<b>CAS No.</b>	<b>Classification</b>	<b>Concentration</b>
BCIP	6578-86-9	Mild Corrosive	<1%

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**3.2.3 Recon Tube and Wash Tube (in addition to Tris HCl and Tris Base in 3.2.1)**

<b>Component</b>	<b>CAS No.</b>	<b>Classification</b>	<b>Concentration</b>
SLF18	HMIRC#7192	Safe	<0.5%
Sodium Chloride	7647-14-5	None	<1%

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**3.2.4 Bottle B (in addition to Tris HCl and Tris Base in 3.2.1)**

<b>Component</b>	<b>CAS No.</b>	<b>Classification</b>	<b>Concentration</b>
Sodium Azide	26628-22-8	Toxic (very diluted)	0.05%

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**3.2.5 Lysing (in addition to Tris HCl and Tris Base in 3.2.1)**

<b>Component</b>	<b>CAS No.</b>	<b>Classification</b>	<b>Concentration</b>
BSA	9048-46-8	Irritant	5.5%
Rabbit IgG	None	Irritant	2.0%
Dextran	9004-46-8	None	2.0%
OTG	85618-21-9	None	<10%
Sodium Chloride	7647-14-5	None	<2.0%

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## 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water especially with Bottle A and Lysing. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

**4.3 Indication of immediate medical attention and special treatment needed**

If contents of Bottle A are inhaled, the diatomaceous earth is considered harmful to the lungs.

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**5 FIRE-FIGHTING MEASURES****5.1 Extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

Nature of decomposition products is unknown.

Carbon oxides, Oxides of phosphorous, Hydrogen chloride gas, Sodium oxides

**5.3 Special protective actions for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

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**6 ACCIDENTAL RELEASE OF MATERIAL****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**6.2 Environmental Precautions**

Do not let powdered product enter drains.

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

Save chromogen tube for corrosive waste. Save Recon Tube, Wash Tube and Lysing for non-hazardous waste. Save Bottle B for toxic waste

### 6.4 **Reference to other sections**

For disposal, see Section 13.

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## 7 **HANDLING AND STORAGE**

### 7.1 **Precautions for safe handling**

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions, see Section 2.2.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight.

### 7.3 **Specific end uses**

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

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## 8 **EXPOSURE CONTROLS / PERSONAL PROTECTION**

### 8.1 **Control parameters**

#### **Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

### 8.2 **Exposure controls**

#### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **Personal protective equipment**

##### **Eye/face protection**

Safety glasses, use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

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**Skin Protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection**

For nuisance exposures use type P95 (US) or type P1 (EU UN 143) particle respirator.

**Control of Environmental Exposure**

Do not let product enter drains.

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**9 PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

- a) Bottle A – solid before use, clay-like after use.
- b) Chromogen tube – mildly corrosive liquid
- c) Bottle B – Liquid, slightly toxic due to sodium azide at 0.05%
- d) Wash Solution and Recon Tubes – Liquid, non toxic
- e) Lysing Reagent – solid, lyophilized.
- f) Test Vial – solid, lyophilized

No data available on melting point/freezing point, boiling point, flash point, evaporation rate, flammability (solid, gas), autoignition temperature, lower and upper flammability or explosive limits, vapor pressure, partition coefficient, relative vapor density, odor, odor threshold, viscosity, explosive properties, or oxidizing properties.

**9.2 Other information**

None

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## 10 STABILITY AND REACTIVITY

### 10.1 Reactivity

None of the reagents in this kit are considered reactive.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to Avoid

No data available.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

Other decomposition products – no data available.

In the event of fire: see Section 5.

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

No data available.

Inhalation: no data available

Dermal: no data available

#### Skin corrosion/irritation

No data available.

#### Serious eye damage/eye irritation

No data available.

#### Respiratory or skin sensitization

For diatomaceous earth, 6 mg/cubic meter

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**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

IARC: No component of this product, present at levels greater than or equal to 0.1%, is identified as a probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available.

**Specific target organ toxicity – single exposure**

No data available.

**Specific target organ toxicity – repeated exposure**

No data available.

**Aspiration hazard**

No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

No data available.

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

No data available

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

No data available

**12.6. Other adverse effects**

No data available.

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**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of unused product.

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**14. TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods.

**IMDG**

Not dangerous goods.

**IATA**

Not dangerous goods.

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**15. REGULATORY INFORMATION**

**REACH No:** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This material does not contain any chemical compounds with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section, 313.

**SARA 311/312 Hazards**

Acute Health Hazard.

**California Prop. 65 Components**

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

**16. OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3.**

Eye Irrit.	Eye Irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation
H335	May cause respiratory irritation
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity – single exposure.

**HMIS Rating**

Health Hazard: Chronic Health	1
Flammability	0
Physical Hazard	0

**NFPA Rating**

Health Hazard	1
Fire Hazard	0
Reactivity Hazard	0

**The above data are based on tests, experience, and other information which Modern Water Inc. believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufacturers. In these instances, Modern Water, Inc., in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, MODERN WATER INC. DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR**

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