



## MATERIAL SAFETY DATA SHEET

### According to ISO/DIS 11014

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

Hazardous Ingredients ( <i>specific</i> )	CAS #	%
Potassium Oxalate	583-52-8	39%
Acridine Orange	10127-02-3	0.41%

### 4. FIRST-AID MEASURES

- Inhalation** IF INHALED, supply fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.
- Skin Contact** IF ON SKIN, immediately wash with soap and water and rinse thoroughly.
- Eye Contact** IF IN EYES, rinse the open eye with water for 15 minutes. Seek medical attention if irritation develops.
- Ingestion** IF SWALLOWED, immediately seek medical attention.

### 5. FIRE-FIGHTING MEASURES

**Flammability Summary**

Product is not known to be flammable, combustible, pyrophoric, or explosive.

**Suitable Extinguishing Agents**

CO<sub>2</sub>, ABC Multipurpose Dry Chemical or Water Spray  
 Fight larger fires with water spray or alcohol resistant foam.

**Unsuitable Extinguishing Agents**

Not Applicable

**Protective Equipment**

Not Applicable

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Protection for Emergency Situations**

Use the personal protection equipment recommended in Section 8.

**Measures for Environmental Protection**

Wipe up with a damp sponge or mop.

**Measures for Cleaning/Collecting**

Use personal protection equipment recommended in Section 8 and be cautious if there is broken glass present. Use internal policy for cleaning-up and disposing of chemical contaminated sharps.

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Refer to Section 13 for specific disposal information.

### 7. HANDLING AND STORAGE

#### Handling

**Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

**Information about protection against explosion and fires:**

No special measures required.

#### Storage

**Requirements to be met by storerooms and receptacles:**

No special requirements

**Information about storage in one common storage facility:**

Store away from oxidizing agents

**Further information about storage conditions:**

None.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Personal Protective Equipment



**Respiratory Protection**

Not necessary

**Hand Protection**

Chemical resistant gloves (i.e. nitrile)

**Eye Protection**

Safety glasses or face shield

**Body Protection**

Protective work clothing (i.e. lab coat)

#### When the product is used as directed with human blood:

Use appropriate personal protection equipment as instructed in an internal blood borne pathogen exposure control plan.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Solid
<b>Color</b>	Orange/White
<b>Odor</b>	Characteristic
<b>Melting Point</b>	Undetermined
<b>Boiling Point</b>	Undetermined

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<b>Flash Point</b>	Not Applicable
<b>Flammability</b>	Product is not flammable
<b>Danger of Explosion</b>	Product does not present an explosion hazard
<b>Density</b>	Undetermined
<b>Solubility In Water</b>	Soluble
<b>pH</b>	Not Applicable
<b>Solvent Contents</b>	0.0%
<b>Solids Contents</b>	100%

**10. STABILITY AND REACTIVITY**

**Thermal Decomposition**

No decomposition if used according to specifications

**Conditions to Avoid**

None if used according to specifications

**Dangerous Reactions**

No dangerous reactions known

**Dangerous Products of Decomposition**

Carbon Monoxide (CO) and Carbon Dioxide (CO<sub>2</sub>)

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity</b>	No acute toxicity effects known
<b>Skin irritation/corrosion</b>	No irritating effects known
<b>Eye damage/irritation</b>	No irritating effects known
<b>Respiratory or skin sensitisation</b>	No sensitizing effects known
<b>Reproductive cell mutagenicity</b>	Contains mutagen

Subchronic Data – Acridine Orange

Bacteria Mutation: 10 mmol/L

DNA Damage Rodent-mouse ascites tumor: 20 µmol/L

DNA Adduct –fish, salmon sperm: 40 nmol/L

<b>Carcinogenicity</b>	No carcinogenic effects known
<b>Reproductive Toxicity</b>	No reproductive toxicity effects known
<b>Specific Target Organ Toxicity</b>	
<b>Single Exposure</b>	No toxicity effects known
<b>Repeated Exposure</b>	Target Organs: Blood, liver, kidney, respiratory system and skin
<b>Aspiration Hazard</b>	No aspiration hazards known

**12. ECOLOGICAL INFORMATION**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

Water Hazard Class 1 (Self-Assessment): slightly hazardous for water

**13. DISPOSAL CONSIDERATIONS**

**Disposal of Product**

This product is not considered a RCRA hazardous waste  
Dispose of materials in accordance with federal, state and local requirements.

Product used with human blood as directed should be disposed of according to internal medical waste/sharps disposal requirements.

**Disposal of Uncleaned Packaging**

Dispose of materials in accordance with federal, state and local requirements.

**14. TRANSPORT INFORMATION**

*It is the determination of QBC Diagnostics, Inc. that the product does not meet the basic description of a Hazardous Material or Dangerous Good under the DOT, IATA or IMDG transportation regulations.*

*This product contains minimal amounts of toxic solids. The device is formed to a specific shape and the toxic materials are sprayed onto the glass. Due to the design during manufacturing and that the device must be used in whole during end use, the device does not release or otherwise result in exposure to hazardous chemical under normal conditions of use and transport.*

**DOT Regulations**

Hazard Class Not Applicable

**Land Transport ARD/RID**

Hazard Class Not Applicable

**Maritime transport IMDG**

Hazard Class Not Applicable

Marine Pollutant No

**Air Transport ICAO-TI and IATA-DGR**

Hazard Class Not Applicable

**15. REGULATORY INFORMATION**

**SARA Section 355 (Extremely Hazardous Substances)**

26628228 Sodium Azide

**SARA Section 313 (Specific Toxic Chemical Listings)**

67630 Isopropanol

**TSCA (Toxic Substances Control Act)**

583528 Potassium Oxalate

67630 Isopropanol

**California Proposition 65 – Section A – Chemicals Known to Cause Cancer**

None of the ingredients listed

**California Proposition 65 – Section B – Chemicals Known to Cause Reproductive Toxicity**

None of the ingredients listed

**IARC (International Agency for Research on Cancer)**

67630 Isopropanol (Group 3)

**NTP (National Toxicology Program)**

None of the ingredients listed

**16. OTHER INFORMATION**

*To the best of our knowledge, the information contained herein is accurate. However, neither QBC Diagnostics, Inc. or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

**Issue By:** QBC Quality Department

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