

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	92%
Sodium Chloride	7647-14-5	1.2%
Acridine Orange	10127-02-3	1.4%

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

CO₂, 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

MATERIAL SAFETY DATA SHEET According to ISO/DIS 11014

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.

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

Form

Solid

MATERIAL SAFETY DATA SHEET
According to ISO/DIS 11014

Color	Orange/White
Odor	Characteristic
Melting Point	Undetermined
Boiling Point	Undetermined
Flash Point	Not Applicable
Flammability	Product is not flammable
Danger of Explosion	Product does not present an explosion hazard
Density	Undetermined
Solubility In Water	Soluble
pH	Not Applicable
Solvent Contents	0.0%
Solids Contents	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 (CO₂)

11. TOXICOLOGICAL INFORMATION

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

Carcinogenicity	No carcinogenic effects known
Reproductive Toxicity	No reproductive toxicity effects known
Specific Target Organ Toxicity	
Single Exposure	No toxicity effects known

MATERIAL SAFETY DATA SHEET
According to ISO/DIS 11014

Repeated Exposure Target Organs: Blood, liver, kidney, respiratory system and skin
Aspiration Hazard 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

MATERIAL SAFETY DATA SHEET
According to ISO/DIS 11014

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.

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