

## R-771 SAFETY DATA SHEET

Version 1.0 Effective Date: 06/01/2015

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: R-771 Potassium Iodide-Iodate Titrant

Description: Test Reagent

Suggested Use: Industrial Water Treatment

Restrictions on Use: Do not mix with other industrial chemicals.

Supplier: Advanced Chemical Technology, Inc.

8728 Utica Avenue

Rancho Cucamonga, CA 91730 1-909-980-4556 or 1-800-527-9607

Telephone: 1-909-980-4556 or Fax: 1-909-980-9366

Emergency Phone: 1-800-255-3924 (CHEMTEL)

#### 2. HAZARDS IDENTIFICATION

#### Classification

GHS Classification: Serious Eye Irritation (Category 2A)

**GHS Label Elements** 

Pictogram:

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Signal Word: Warning

Hazard Statements: H316: Causes mild skin irritation

H319: Causes serious eye irritation

Precautionary Statements: P264: Wash hands thoroughly after handling.

P 273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye 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.

P337+P313: If eye irritation persists: Get medical attention/advice. P332+P313: If skin irritation occurs: Get medical advice/attention.

P501 - Dispose of contents/container to comply with local, state and federal

regulations.

HMIS Classification: Health Hazard: 1

Flammability: 0 Physical Hazards: 0

NFPA Rating: Health Hazard: 1

Fire: 0 Reactivity Hazard: 0

**Potential Health Effects** 

Inhalation: May cause respiratory irritation.



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Skin: May cause mild skin irritation. Eyes: May cause mild irritation.

Ingestion: May cause diarrhea, and vomiting due to irritation of intestinal mucous

membrane.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**CAS Number** Concentration Component Potassium Iodate 7758-05-6 Not Established Potassium Iodide 7681-11-0 Not Established

Synonyms:

#### 4. FIRST AID MEASURES

Remove person to fresh air, loosen tight clothing. Obtain medical attention if If Inhaled:

breathing is difficult.

Flush all affected areas with large amounts of water for at least 15 minutes. Skin Contact: Eye Contact:

Flush eyes with plenty of water for at least 15 minutes and consult a physician.

Remove contact lenses if able to do so.

Do NOT induce vomiting unless instructed to do so by a physician. Never give If Ingested:

anything by mouth to an unconscious person. Rinse mouth with water. Consult

a physician.

#### 5. FIREFIGHTING MEASURES

Flammability Overview: Dried residue is a strong oxidizing agent. Toxic vapors maybe released.

Flash Point: Not Applicable

Extinguishing Media: Use water-spray, foam, dry chemical, or carbon dioxide.

Special Protective Equipment

for Firefighters:

Wear a self-contained breathing apparatus (SCBA) for firefighting if necessary.

Hazardous Combustion

Products:

Hydrogen iodide, iodine

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Avoid breathing vapors, mist, or gas.

Always ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Prevent from entering drains

and waterways. Discharge into the environment must be avoided.

Containment and Clean Up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep

in suitable, closed containers for disposal. If assistance is needed call

CHEMTEL or emergency services.

## 7. HANDLING AND STORAGE



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Safe Handling: Use personal protective equipment. Avoid breathing vapors, mist, or gas.

Always ensure adequate ventilation.

Safe Storage: Keep containers tightly closed in a dry well-ventilated place. Containers which

are opened must be carefully resealed and kept upright to prevent leakage.

Store away from incompatible materials.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Exposure Limits**

Component	CAS Number	Exposure Limit	Basis
Potassium Iodate	7758-05-6	Not Established	ACGIH Threshold Value (TWA) (mg/m <sup>3</sup> )
Polassium lodate		Not Established	OSHA PEL (TWA) (mg/m <sup>3</sup> )
Potassium Iodide	7681-11-0	Not Established	Not Established
Potassium lodide	7001-11-0	Not Established	Not Established

## Personal Protective Equipment

Hand Protection:

Eye Protection: Wear tightly fitting safety goggles or safety glasses. Use equipment for eye

protection tested and approved under appropriate government standards such as NIOSH. Have eye-wash stations available where eye contact can occur. Handle with chemical-resistant gloves. Gloves must be inspected prior to use.

Dispose of contaminated gloves. Wash and dry hands after use.

Skin Protection: Protect skin by wearing pants, close toe shoes and long sleeves. The type of

protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Safety showers

should be located in the work area where skin contact can occur.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate, use a

NIOSH-approved full-face respirator with appropriate cartridges. For oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator.

Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA 29 CFR

1910.134.

General Controls: Always ensure adequate ventilation and that working areas contain safety

showers and eye wash stations. Handle material in accordance with good

industrial hygiene and safety practices.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Colorless
Odor: None

Odor Threshold: Not Established

oH: 4.

Melting/Freezing Point: Not Established

Boiling Point: 212 ° F

Flash Point:

Evaporation Rate:

Flammability (solid, gas):

Not Established

Not Established



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Flammability/Explosion Limits: Not Established Vapor Pressure @ 20°C: Not Established Vapor Density: 17 mmHg @ 60° F

Specific Gravity: 1.028

Density: Not Established

Solubility in Water: Complete

Partition Coefficient:
Autoignition Temperature:
Decomposition Temperature:
Viscosity:

Not Established
Not Established
Not Established
Not Established

## 10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended and storage conditions.

Conditions and Materials to

Avoid:

Strong acids, reducing agents, combustible materials. Do not mix with other

industrial chemicals.

Hazardous Decomposition

Products:

Hydrogen iodide, iodine

## 11. TOXICOLOGICAL INFORMATION

## **Acute Toxicity**

Component	CAS Number	Test	Toxicity	
		Oral LD50 (Mouse)	Not Established	
Potassium Iodate	877-24-7	Skin	Not Established	
1 otassidili lodate		Inhalation LC50-1H (Rat)	Not Established	
		Oral LD50 (Mouse)	Not Established	
Potassium Iodide	7681-11-0	Skin	Not Established	
		Inhalation LC50-1H (Rat)	Not Established	

### **Potential Health Effects**

Inhalation: May cause irritation.

Skin: May cause mild skin irritation. Eyes: May cause mild irritation.

Ingestion: May cause diarrhea, and vomiting due to irritation of intestinal mucous

membrane.

Signs and Symptoms of

Exposure:

Not Established

Chronic Effects of Long-term

Exposure:

Not Established

Carcinogenicity: No component of this product at levels greater than 0.1% is identified as

carcinogenic by IARC, ACGIH, or OSHA.

## 12. ECOLOGICAL INFORMATION



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## **Acute Ecotoxicity**

Component	CAS Number	Organism	Ecotoxicity
Potassium Iodate	7758-05-6	Not Established	Not Established
Potassium Iodide	7681-11-0	Not Established	Not Established

## **Ecological Effects**

Persistence and Degradability: Not Established

Bioaccumulation Potential: Not expected to bio-accumulate

Mobility in Soil: Not Established

Other Adverse Effects: Not Established

## 13. DISPOSAL CONSIDERATIONS

Disposal: Surplus and non-recyclable material should be treated as hazardous waste and

be disposed of by a licensed disposal company. Material should be disposed in accordance with all local, state, and federal regulations. Regulations vary by

region. Do not release into sewers or waterways.

Contaminated Packaging: Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

#### **DOT Information**

Proper Shipping Name:

Non-Regulated

UN Number: Hazard Class: Packing Group:

Reportable Quantity (RQ):

Marine Pollutant: Not Established

Note:

## 15. REGULATORY INFORMATION

### **US Federal**

SARA 302 Components: Not Established SARA 311/312 Hazards: Not Established SARA 313 Components: Not Established

TSCA Inventory: All Not Established chemical components are listed on TSCA Inventory.

## **European Union**



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EC Inventory: Not Established

**State Regulations** 

CA Prop 65: This product does not contain chemicals currently on the California list known

carcinogens and/or reproductive toxins.

#### **16. OTHER INFORMATION**

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Disclaimer: The information contained in this document was carefully compiled and is

believed to be accurate. The information represents the present state of our knowledge and is applicable to the product with the regard to appropriate safety precautions. However, it does not represent any guarantee of the properties of the product. Advanced Chemical Technology, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product. It is the responsibility of the purchaser to determine the suitability of the product for their particular purposes. Nothing contained herein shall be construed to be a recommendation to use, or as a license to operate under, or to infringe any existing patents. For product information call Advanced Chemical Technology,

Inc., 1-909-980-4556.