



# KEYSTONE

## SAFETY DATA SHEET

### Keystone Aniline Corporation

www.dyes.com

#### Corporate Headquarters

2501 West Fulton Street

Chicago, IL 60612

Tel 312-666-2015

Fax 312-666-8530

#### Manufacturing Facility

2165 Highway 292

Inman, SC 29349

Tel 864-473-1601

Fax 864-473-2377

#### 24 Hour Emergency Phones

In U.S. Call CHEMTEL 1-800-255-3924

Outside U.S. call CHEMTEL Collect at:

1-813-248-0585

**HMIS RATINGS:** HEALTH: 2 FIRE: 0 REACTIVITY: 0 PERSONAL PROTECTION: H

### SECTION 1: PRODUCT IDENTIFICATION

**Product I.D.:** 70301027  
**Product Name:** KEYACID™ RHODAMINE WT LIQUID  
**Product Description:** Aqueous Acid Red Colorant Solution  
**Chemical Family:** Confidential xanthene dye  
**Effective Date:** August 4, 2010

### SECTION 2: HAZARD IDENTIFICATION AND EMERGENCY OVERVIEW

#### Emergency Overview:

Unprotected contact may cause eye irritation and slight skin irritation in sensitive individuals. Slight possibility of allergic reactions from repeated contact in some individuals.

#### Eye Contact:

Depending on duration and personal sensitivity, unprotected contact may cause mild irritation, discomfort, redness, watering, itching or other effects. Heavy contact or for prolonged period may increase effects. Follow ALL supervisor and Personal Protection instructions in Section 8 of this SDS.

#### Skin Contact:

Depending on amount of direct unprotected contact, possibility of irritation and allergic reactions in some individuals with redness, itching or other effects. Other delayed effects are possible, including rash. Prolonged or repeated contact may cause inflammation in some individuals. Follow section 8 protection precautions.

#### Inhalation:

Unprotected inhalation of product vapors, mists, aerosols or dusts may cause irritation of the nose, throat, lungs and mucous membranes. Effects may include shortness of breath, cough, nausea, dizziness, headache or other effects. Prolonged or heavy exposure, or heating of liquid material may increase severity of symptoms.

#### Ingestion:

May cause mouth, throat and digestive tract irritation. May be harmful if swallowed.

#### Medical Conditions Aggravated by Exposure:

Improper protection allowing contact with vapors, mists, aerosols, splashes or dusts of product by inhalation, eye contact, skin contact or swallowing may aggravate one or more of the following pre-existing medical conditions: Respiratory problems (asthma, allergies, etc.), skin conditions, eye conditions. Ingestion or inhalation may have potential to aggravate kidney or liver disorders. Heavy or long-term contact may increase effects. Avoid contact/exposure. Individuals with above-noted conditions should avoid working with product.

#### Skin Sensitization:

**70301027**  
**KEYACID™ RHODAMINE WT LIQUID**

Not known to cause skin sensitization. With careful handling and when good chemical hygiene procedures are followed, harmful effects are not expected. As a precaution against unforeseen or unexpected sensitivity or possible allergic reactions, follow ALL Personal Protection instructions in Section 8 of this SDS.

**Respiratory Sensitization:**

In liquid form, under normal and safe operating conditions, components of this product are not expected to cause respiratory sensitization or allergic reactions. As an extra precaution, careful handling and good chemical hygiene procedures should be followed. See section 8 of this Safety Data Sheet.

**Special Warnings:**

None for this material

**Unusual Health Hazards:**

None for this material

**Supplemental Hazard Information:**

No additional information is currently available

**Notes to Physician:**

Treat Symptomatically based on Section 2 Hazard Warnings and Section 3 ingredients unless indicated otherwise

**Cancer Information:**

\*\*\* Not known to contain carcinogens \*\*\*

### SECTION 3: OSHA HAZARDOUS INGREDIENTS

Component	CAS Number	Wt %	OSHA - PEL	ACGIH - TLV	Recommended PEL
Confidential Rhodamine dye liquid (2)	Undisclosed	1 - 10%	Not established	Not established	Lowest possible exposure or zero with best PPE.
Diethylene Glycol (Ethanol, 2,2'-oxybis)	111-46-6	.1 - 1%	Not established	Not established	See Airborne Exposure Limits, Section 8
Confidential Rhodamine dye liquid (1)	Undisclosed	1 - 10%	Not established	Not established	Lowest possible exposure or zero with best PPE.
Trimellitic acid	528-44-9	1 - 10%	Not established	Not established	Lowest possible exposure or zero with best PPE.

**Important Notice:**

Unprotected contact with ingredients listed in Section 3 may be hazardous based on OSHA 29 CFR 1910.1200 & related appendices. Components not listed are trade secrets, non-hazardous, or not reportable. This SDS is not intended to offer full disclosure, but all component information is available to medical or emergency personnel. All hazards are based on contact exposure. Effects may be unpredictable and may vary from person to person due to individual reactions. Reducing or eliminating contact can reduce or eliminate risk. Use protective equipment and clothing in Section 8 to minimize or eliminate contact. Users are responsible for hazard determination and communication. Unless indicated otherwise, non-carcinogenic components are indicated within a 1-10% range, and investigated or potential carcinogens within a 0.1-1% range. HMIS ratings are based on data interpretation, and vary from company to company. They are intended only for quick, general identification of the degree of potential hazards. Hazards range from 0 (Minimal) up to 4 (Severe). Consult the National Paint & Coatings Association HMIS Manual for detailed information on ratings. To handle material safely, consider all information in this SDS.

### SECTION 4: FIRST AID INSTRUCTIONS

**Eye Contact:**

Immediately rinse with flowing water for at least 15 minutes while holding eyelids open. Get immediate medical attention, as a precaution. Have a copy of this Safety Data Sheet available.

**Skin Contact:**

Immediately remove contaminated clothing. Wash affected area with soap and rinse with plenty of water. Get medical attention, as a precaution. Have a copy of this Safety Data Sheet available.

70301027  
KEYACID™ RHODAMINE WT LIQUID

**Inhalation:**

Immediately move person to fresh air. If breathing is difficult give oxygen, call 911 immediately. If person is experiencing a tight chest, lung spasms, or other breathing-related symptoms, or chest pain call 911 immediately. Calm and comfort the individual. If not breathing, immediately call 911, continue to give artificial respiration (CPR) until medical help arrives. Have this Safety Data Sheet printed out and available on hand.

**Ingestion:**

Do not induce vomiting unless directed to do so by a doctor or by other emergency medical personnel. Forced vomiting of certain chemicals may cause aspiration and lung damage. Have this Safety Data Sheet available.

**SECTION 5: FIRE FIGHTING INSTRUCTIONS****Auto-ignition Temperature:**

Not applicable

**LEL:**

Not applicable

**UEL:**

Not applicable

**Unusual hazards:**

None expected

**Other Hazards:**

None known

**Types of Extinguishers:**

CO2, dry chemical, foam, water fog or spray depending on type of fire

**Fire Fighting Directions:**

NA

**SECTION 6: ACCIDENTAL SPILL OR RELEASE INSTRUCTIONS****Special Precautions:**

None known. Follow general precautions shown below.

**Reporting:**

Check the applicable RQs in Section 15

**Static Discharges:**

IMPORTANT - FOR DYES CONTAINING FLAMMABLE SOLVENTS (Check section 3 for ingredients, section 5 or 9 for flash point, section 14 for transport classification). IF FLAMMABLE, GUARD AGAINST FIRE AND EXPLOSION: Take precautionary measures against static discharges when cleaning up leaks or spills of combustibles, flammables and powders. Containers should be properly grounded with metal straps, cables or other appropriate means to relieve static electricity build-up or generation. IMPORTANT: When using, mixing, filling, or otherwise dispensing any types of solvents, do not allow buildup of flammable or combustible vapors or vapor-air mixtures in confined spaces, storage tanks, or any other areas or enclosures. Totes, drums, pails, and all other containers should be completely sealed when not in use. Flammable vapors can travel a distance to ignition sources and cause fire or explosion. Take every precaution and monitor all safety factors and systems, including maintaining more-than-adequate air-exchange ventilation.

**Environmental Protection:**

Immediately dike liquid spills with inert absorbent material (sand, "Oil Dry" or other commercially available spill absorbent) to contain and soak up liquid. Prevent material from entering floor drains, sewers, or any bodies of water. For powder spills, use sweeping compound, sawdust, or other appropriate material to contain dust. If possible, recover any uncontaminated materials to re-use.

**Protective equipment and clothing:**

Wear all proper personal protective equipment and clothing to care for spill situation. See section 8 of this Safety Data Sheet.

**Clean up:**

**70301027**  
**KEYACID™ RHODAMINE WT LIQUID**

After containing liquid spill by diking and soaking up with inert absorbent material, place in labeled container to be sealed for proper and regulated disposal. Only the slightest residue should remain. Try to save uncontaminated material for reuse whenever possible. For powders, use sweeping compound to minimize dust and pick up as much product as possible. Do not allow liquids to seep into drains, sewers, lakes, rivers, etc. Check Sections 1 and 2 for dye description or type. Solvent dye residue may be cleaned by scrubbing with detergent, depending on type. Do not add water to water-soluble dyes. Dye is concentrated. This will increase amount of color to remove. All cleaning or scrubbing liquids used should be absorbed and placed in labeled containers for correct disposal. Absorbent material containing solvents may release combustible or flammable vapors and should be handled accordingly, properly labeled and disposed. Check Sections 2, 5, 13 & 15 for applicable instructions and regulations.

**SECTION 7: HANDLING AND STORAGE****Warnings and Precautions:**

No special precautions anticipated. Wear all PPE in section 8 as a precaution, and avoid physical contact with material.

**Personal Protection:**

Wear ALL proper personal protective equipment as outlined in section 8 of this SDS.

**Handling, Storage & Temperature Conditions:**

Keep containers tightly sealed in cool & dry area, out of direct sunlight. IMPORTANT: FOR PRODUCTS LISTING FLAMMABLE/COMBUSTIBLE SOLVENTS or LOW FLASH POINTS - GUARD AGAINST FIRE AND EXPLOSION: Store away from fire hazards and ignition sources, high heat, open flames, welding, hot plates, steam pipes, radiators, etc. Maintain good ventilation. Guard against static discharges. Ground all containers before mixing or filling. Use non-sparking tools to open, close or otherwise work with containers. Limit indoor storage to approved areas with automatic sprinklers. Vapors expected to be released when material is heated during process operations.

STATIC CHARGES: Take precautionary measures against static discharges when mixing, cleaning, filling or otherwise dispensing combustible or flammable liquids. Containers should be properly grounded with metal straps, cables or other appropriate means to relieve static electricity build-up or generation.

VAPORS: IMPORTANT: DO NOT ALLOW buildup of flammable or combustible vapors or vapor-air mixtures in confined spaces, storage tanks, or any other areas or enclosures. Totes, drums and all other containers should be completely sealed when not in use. Vapors can travel a distance to ignition sources and cause fire or explosion. Take every precaution and monitor all safety factors and systems, including maintaining more-than-adequate air-exchange ventilation.

POWDERS: General precautions: Although unlikely in most instances, GUARD AGAINST DUST EXPLOSION HAZARD. Eliminate or keep dust to a minimum. Under the right conditions, high dust concentrations of certain particle sizes mixed with air in a critical ratio in the presence of an ignition source can theoretically cause a dust explosion. Be sure to PROPERLY ground containers when filling, mixing or otherwise dispensing powders. KEEP WORK AREA CLEAN AND DUST-FREE. Follow all Section 8 recommendations for Exposure Controls and Personal Protection.

WATER-BASED PRODUCTS: DO NOT ALLOW TO FREEZE.

**SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION****Note: Selecting protective equipment & clothing:**

When choosing personal protective equipment and clothing, consider each worker's environment, all chemicals being handled, temperature, ventilation, and all other conditions. Determination of the level of protection needed for the eyes, skin and respiratory system under working conditions is the responsibility of the product end-user or shift supervisor. Safety Data Sheet Sections 2, 3, 8 and 11 should be consulted.

**Eye protection:**

As a precaution, wear indirectly vented, splash-proof chemical safety goggles. When handling liquids, wear splash-proof goggles under a clear face-shield. Face shield is not to be used without these goggles. The type or extent of protection needed should be determined by the product end-user or shift supervisor.

**Skin Protection:**

**70301027**  
**KEYACID™ RHODAMINE WT LIQUID**

Always wear impervious, chemical-resistant synthetic or rubber gloves. Check with manufacturer for best glove for the material being handled. Wear good quality long sleeved work shirt, coveralls, and a rubber or plastic apron. Wash hands after handling and before eating, drinking or using restroom. Shower after each shift. Clean contaminated but reusable protective equipment and clothing before reusing and wearing again. Discard contaminated disposable gloves and clothing. The type or extent of protection needed should be determined by the product end-user or shift supervisor.

**Respiratory Protection:**

Depending on type of material handled and processing conditions, the appropriate NIOSH approved air-purifying organic vapor/mist respirator or dust respirator (with proper pre-filters if required) should be worn as a precaution when any inhalation contact with product is possible. A properly selected, disposable NIOSH approved air-purifying mask may be acceptable (Check with the mask manufacturer). After each shift or when equipment becomes contaminated, clean the respirator and replace filters in compliance with 29 CFR 1910.134. Discard disposables as often as required. The type or extent of protection needed should be determined by the product end-user, shift supervisor or other appropriate on-site manager.

**Eye Washes and Other Protection:**

Eye wash stations and drench showers should be located within 100 feet or 10-second walk of the work area per ANSI standard Z358.1-1990.

**Ventilation:**

Local exhaust or other appropriate ventilation should be used to maintain exposure limits below specified amounts recommended by OSHA, NIOSH, or ACGIH and to draw spray, aerosol, vapors, or dusts away from workers and prevent routine inhalation. At least 10 air changes per hour are recommended for good room ventilation. **IMPORTANT - GUARD AGAINST FIRE AND EXPLOSION:** When using, mixing, filling, or otherwise dispensing any types of solvents, do not allow buildup of flammable or combustible vapors or vapor-air mixtures in confined spaces, storage tanks, or any other areas or enclosures. Totes, drums and all other containers should be completely sealed when not in use. Vapors can travel a distance to ignition sources and cause fire or explosion. Take every precaution and monitor all safety factors and systems, including maintaining more-than-adequate air-exchange ventilation.

**Airborne Exposure Limits:**

Chemical Name	CAS #	WT %	NIOSH - REL	NIOSH - IDLH	OTHER OEL'S
Diethylene Glycol (Ethanol, 2,2'-oxybis)	111-46-6	.1 - 1%	Not established	Not established	AIHA WEEL Vapor/Aerosol 50 PPM Aerosol 10 mg/m3

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Flash Point:</b>	Not applicable
<b>pH:</b>	Not established
<b>% Water:</b>	Not established
<b>% Total Solids:</b>	0
<b>% Total VOC:</b>	0.08
<b>% Solvents:</b>	0
<b>Boiling Point:</b>	~ 212 °F (100 °C)
<b>Appearance:</b>	Reddish liquid
<b>Odor:</b>	Slight or none
<b>Freezing Point:</b>	~ 32 °F (0 °C)
<b>Lbs. per gallon (Liquid):</b>	Not established
<b>Specific Gravity (Liquid):</b>	Not established
<b>Vapor Pressure:</b>	Not established
<b>Viscosity:</b>	Not established
<b>Solubility:</b>	Miscible in water
<b>Other Properties:</b>	No further data

All Data shown above are typical values, not specifications.

**SECTION 10: STABILITY AND REACTIVITY**

70301027  
KEYACID™ RHODAMINE WT LIQUID

**Stability:**

Product is expected to be stable under normal, ambient (controlled) conditions concerning heat, moisture, pressure, fire and ignition hazards, and ventilation. Contact with incompatible or reactive materials may cause hazardous reactions in some products if indicated. Check information below.

**Hazardous Polymerization:**

Product will not undergo polymerization.

**Conditions to Avoid:**

None known

**Incompatible Materials:**

None known

**Hazardous Decomposition Products:**

In fire: Oxides of carbon and nitrogen.

**Possible Hazard Reactions:**

None known

### SECTION 11: TOXICOLOGICAL INFORMATION

Component	Eye Effect	Skin Effect	Skin Sens	Resp Sens	Oral LD50	Inh LC50	Mutagen	Other Tox Data	Other Info
Confidential Rhodamine dye liquid (2)	May irritate	No Data	No Data	No Data	No Data	No Data	No Data	May be harmful if swallowed	Possibility of allergic reaction in individuals
Diethylene Glycol (Ethanol, 2,2'-oxybis)	Mild irritant	Mild irritant	No Data	No Data	12565 mg/kg (Rat)	No Data	No Data	Oral LD50: 23700 mg/kg (Mouse) Dermal LD50: 11890 mg/kg (Rabbit)	No Data
Confidential Rhodamine dye liquid (1)	May irritate	No Data	No Data	No Data	No Data	No Data	No Data	May be harmful if swallowed	Possibility of allergic reaction in individuals
Trimellitic acid	May cause chemical inflammation	Irritant	No Data	No Data	No Data	No Data	No Data	No Data	May cause delayed pulmonary edema

### SECTION 12: ECOLOGICAL DATA

Component	AOX	Aquatic Tox	BOD	Biodeg.	COD	Ecotoxicity	Sewage	Other Test Data	Other Info
-----------	-----	-------------	-----	---------	-----	-------------	--------	-----------------	------------

\*\*\* No Data \*\*\*

### SECTION 13: DISPOSAL AND ENVIRONMENTAL CONSIDERATION

**Reuse of materials:**

Reclaim all uncontaminated material to reuse, recycle or otherwise rework whenever possible.

**Contain - Do not release:**

Do not release into sewers, water systems, ground systems or ecosystems without proper authorization.

**Disposal Methods:**

Incinerate, treat, or bury (landfill), after sampling and testing, at facility approved by applicable federal, state, and local authorities.

**Empty Containers:**

Empty containers may contain residue and/or vapors and should not be reused unless professionally cleaned and reconditioned. Crush if not cleaned, to prevent reuse.

70301027  
KEYACID™ RHODAMINE WT LIQUID

**Applicable Regulations:** See Section 15 if regulated  
**Special Instructions:** See Section 15 if regulated

### SECTION 14: SHIPPING AND TRANSPORTATION INFORMATION

#### DOT Regulations (Ground):

**Notes/Special Precautions:** Not regulated. Protect from freezing. Attach PROTECT FROM FREEZING label.

#### IATA Regulations (Air):

**Notes/Special Precautions:** Not regulated. Protect from freezing. Attach PROTECT FROM FREEZING label.

#### IMDG / IMO Regulations (Water):

**Notes/Special Precautions:** Not regulated. Protect from freezing. Attach PROTECT FROM FREEZING label.

### SECTION 15: REGULATORY INFORMATION

#### FEDERAL AND STATE LISTS

Component	CAS Number	Weight %	Regulatory List
Confidential Rhodamine dye liquid (2)	Undisclosed	1 - 10%	No listings known to be applicable.
Diethylene Glycol (Ethanol, 2,2'-oxybis)	111-46-6	.1 - 1%	SOCMI Chemical, State Lists: MN, PA
Confidential Rhodamine dye liquid (1)	Undisclosed	1 - 10%	No listings known to be applicable.
Trimellitic acid	528-44-9	1 - 10%	No listings known to be applicable.

#### SARA 311/312 Hazard Categories:

**Immediate / Acute Health Hazard:** YES  
**Chronic / Delayed Hazard:** YES  
**Fire Hazard:** NO  
**Sudden Release of Pressure Hazard:** NO  
**Reactivity Hazard:** NO

#### GLOBAL CHEMICAL REGISTRATION LISTINGS:

**AICS (Australia):** Not all components listed  
**DSL (Canada):** All components listed except Trimellitic acid (NDSL listed)  
**ECL (Korea):** Not all components listed  
**EINECS (Europe):** Components listed  
**ENCS (Japan):** Not all components listed  
**IECSC (China):** Not all components listed  
**NZIoC (New Zealand):** Not all components listed  
**PICCS (Phillippines):** Not all components listed  
**TSCA (US):** Components listed

#### EU Reach:

**70301027**  
**KEYACID™ RHODAMINE WT LIQUID**

Keystone has taken all relative steps to ensure REACH-Compliance. Please contact us with any REACH-Related questions.

**OTHER LISTINGS:**

Trimellitic acid NDS Listed

**Additional Info:**

For additional international, federal or state regulatory compliance information not shown: Call 312-666-2015.

**SECTION 16: OTHER INFORMATION**

**Reason for Revision:** Adjustment to ingredient reporting and global listings.  
**Reviewed:** 080410

**Disclaimer:**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. This Safety Data Sheet was prepared to comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200, and supersedes any previous information. Previously dated sheets are invalid and inapplicable.

END OF SDS