

**SECTION 1: Product and Company Information**

Product Name : StockOptions Malic Acid kit, pH 3.7 to 6.0 (24 reagents), 10 ml tube format  
Product Number : HR2-240  
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.  
Identified Uses : For research and development only. Not for drug, household or other use.  
Supplier : Hampton Research  
34 Journey  
Aliso Viejo, CA 92656-3317  
United States  
Telephone : 1 949 425 1321  
Fax : 1 949 425 1611  
E-mail : info@hrmail.com  
Web : <https://hamptonresearch.com/>

**SECTION 2: Hazards Identification**

Physical State : Liquid  
Signal Word : Warning  
Label Elements :

**CLP Regulation Classification according to Regulation (EC) No 1272/2008**

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Dermal (Category 4), H312

Acute toxicity, Inhalation (Category 4), H332

Skin corrosion (Category 2), H315

Eye irritation (Category 2), H319

Skin sensitization (Category 1), H317

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

**Hazard statement(s)**

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

## (CONTINUED) - SECTION 2: Hazards Identification

### Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

### Supplemental Hazard Statements

None

## SECTION 3: Composition / Information on Ingredients

Name	CAS	%
DL-Malic acid	6915-15-7	13%

## SECTION 4: First Aid Measures

### General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

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

### In case of skin contact

Wash off with soap and plenty of water.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes.

### If swallowed

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

## SECTION 5: Fire-Fighting Measures

### Suitable extinguishing media

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

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## SECTION 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

### Environmental precautions

Do not let product enter drains.

### Methods and materials for containment and cleaning up

Pick up and arrange disposal. Keep in suitable, closed containers for disposal.

## SECTION 7: Handling and Storage

### Handling

Wear appropriate personal protective equipment including but not limited to safety glasses, gloves and lab coat. Do not ingest. Avoid contact with eyes, skin and clothing. no eating, drinking, or smoking in work areas. Use with adequate ventilation. Keep in original container or approved container with compatible material. Keep closed or sealed when not in use. Do not reuse container.

### Storage

Store between -20 to 25 degrees Celsius. Keep container tightly closed or sealed in a dry well-ventilated space.

## SECTION 8: Exposure Controls / Personal Protection

### Occupational/Personal exposure limits

No exposure limit value known.

### Appropriate exposure 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 with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### 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

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Respiratory protection is not required. For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## SECTION 9: Physical and Chemical Properties

Form:	Liquid
Melting point:	no data available
Boiling point:	no data available
Flash point:	no data available
Ignition temperature:	no data available
Lower explosion limit:	no data available
Upper explosion limit:	no data available
Water solubility:	no data available

## SECTION 10: Stability and Reactivity

### Storage stability

Stable under recommended storage conditions.

### Conditions to avoid

No specific data

### Incompatible materials

No specific data

### Hazardous decomposition products

Under normal storage and use, hazardous decomposition products should not be produced.

### Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions should not be expected to occur.

## SECTION 11: Toxicological Information

### Acute toxicity

No data available

### Irritation and corrosion

No data available

### Sensitization

No data available

### Chronic exposure

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

### Potential health effects

**Inhalation:** May be harmful if inhaled.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** May be harmful if swallowed.

**Target Organs:** Liver, Kidney

## SECTION 12: Ecological Information

### Elimination information (persistence and degradability)

No data available

### Ecotoxicity effects

No data available

### Persistence/degradability

No data available

### Further information on ecology

No data available

## SECTION 13: Disposal Considerations

### Product

Observe all federal, state, regional and local environmental and disposal regulation. Offer surplus and non-recyclable solutions to a licensed waste disposal company. This material and its container must be disposed of in a safe way.

### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transportation Information

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

## SECTION 15: Regulatory Information

### Labeling according to EC Directives

The product does not need to be labeled in accordance with EC directives or respective national laws.

### Safety, health and environmental regulations

No data available

## SECTION 16: Other Information

© 1991 Hampton Research Corp. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Users should make independent decisions regarding completeness of the information based on all sources available.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Hampton Research Corp. shall not be held liable for any damage resulting from handling or from contact with the above product. See our website for our terms and conditions of sales. <https://hamptonresearch.com/>