

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### FORMULATED FOR:

Hydrasmart  
P.O Box 12706  
ROANOKE, VA 24027

**PRODUCT NAME:** Hydra-pHix

**CHEMICAL NAME:** 2-Hydroxy – 1,2,3 – Propanetricarboxylic Acid

**Date of Issue:** 4/18/18

## 2. HAZARDS IDENTIFICATION SUMMARY

Hazard Classification: Acute toxicity, dermal: Category 5  
Skin irritation: Category 3  
Eye irritation: Category 2A

Signal Word: "WARNING"

### Hazard Statements:

H313-May be harmful in contact with skin  
H315-Causes skin irritation  
H320-Causes eye irritation  
H303-May be harmful if swallowed

### Precautionary Statements:

#### (PREVENTION)

P260-Do not breathe mist/vapors/spray  
P264-Wash thoroughly after handling  
P270-Do not eat, drink or smoke when using this product  
P271-Use only outdoors in a well-ventilated area  
P273-Avoid release to the environment  
P280-Wear protective gloves / eye protection / face protection

#### (RESPONSE)

P301+P312- If swallowed, call a POISON CENTER or doctor if you feel unwell  
P330-Rinse mouth  
P302+P352-IF ON SKIN wash with plenty of soap and water  
P305+P351+P338-IN IN EYES rinse cautiously with water for 20 minutes, remove contact lenses and continue rinsing  
P337+P313-If eye irritation persists, get medical advice / attention  
P362+P364-Take off contaminated clothing

### Precautionary Statements, Storage:

P403+P233-Store in a well-ventilated place. Keep container tightly closed.  
P501-Dispose of container in accordance with local regulations



**3. COMPOSITION, INFORMATION ON INGREDIENTS**

<u>Chemical Ingredients:</u>	<u>Percentage of Weight:</u>	<u>CAS No.</u>
Citric Acid	Proprietary	77-92-9
Methyl Red	Proprietary	845-10-3

**4. FIRST AID MEASURES**

**If in eyes:** Flush with clean running water for at least 15 minutes. If irritation persists, get medical attention  
**If on skin:** Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists, or if a rash develops, get medical attention.  
**If swallowed:** If conscious, drink 1 or 2 glasses of water and get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person.  
**If inhaled:** Remove to fresh air. If irritation persists, get medical attention.

**5. FIRE FIGHTING MEASURES**

**FLASH POINT (°F/Test Method):** Does not flash  
**FLAMMABLE LIMITS (LFL & UFL):** Not established  
**EXTINGUISHING MEDIA:** Considered non-combustible. Use foam, CO<sub>2</sub>, dry chemical, or water  
**HAZARDOUS COMBUSTION PRODUCTS:** Vapors are non-toxic and non-irritant  
**SPECIAL FIRE FIGHTING PROCEDURES:** Heating to dryness may cause the release of carbon dioxide gas. Cool containers with water spray.

**6. ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**  
Ventilate area. Stop leak, contain spill and absorb with soil or natural absorbents. Liquid is corrosive. Ensure pumping equipment is 316 stainless steel. Sweep up waste and place in container for disposal. Keep spills and rinsate out of municipal sewers and open bodies of water. Uncontaminated spilled material may be reused.

**7. HANDLING AND STORAGE**

**HANDLING:** Avoid inhalation of mists, vapors/spray, and contact with eyes, skin and clothing. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Wash before eating, drinking, or smoking.  
**STORAGE:** Store in the original labeled container in a cool place away from direct sunlight. Keep separate from food and feed products and out of reach of children and animals. Avoid storage at temperatures of 110F or higher. Corrosive to steel, aluminum, brass. Use with stainless steel or PVC fittings.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Occupational Exposure Limits:**  
US Workplace Exposure Level TLV's: No data available  
US Workplace Exposure Level PEL's: No data available  
Biological Limit Values: No listings

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** Red liquid  
**SOLUBILITY:** Soluble  
**pH:** <1  
**SPECIFIC GRAVITY (Water = 1):** 1.31  
**VAPOR PRESSURE:** Not established  
**PERCENT VOLATILE (by volume):** 0% w/w  
**BULK DENSITY:** 10.9  
**BOILING POINT:** 212°F  
**EVAPORATION DATE:** Not established

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable for at least 2 years under normal conditions.  
**INCOMPATIBILITY:** Metal nitrates (potentially explosive reaction), alkali carbonates and bicarbonates, potassium tartrate. Will corrode copper, zinc, aluminum and their alloys.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Heating to dryness may cause the release of carbon dioxide and carbon monoxide gas  
**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute Oral LD<sub>50</sub>(rat):** Not established  
**Acute Dermal LD<sub>50</sub>(rat):** Not established  
**Eye Irritation (rabbit):** Not established  
**Inhalation LC<sub>50</sub>(rat):** not established  
**Carcinogenic Potential:** None listed in OSHA, NTP, IARC, or ACGIH  
**Skin Irritation (rabbit):** not established  
**Skin Sensitization (guinea pig):** not established

## 12. ECOLOGICAL INFORMATION

**Ecotoxicology:** Toxicity to fish mortality LC<sub>50</sub> – *Leuciscus idus melanotus* – 440 mg/l – 48 h / Method: OECD Test Guideline 203. Toxicity to daphnia and other aquatic invertebrates static test – *Daphnia magna* (water flea) – 1,535 mg/l – 24 h.

## 13. DISPOSAL CONSIDERATIONS

Do not reuse containers. Rinse container thoroughly, adding rinsate to tank mix. Offer for recycling at an ACRC site or dispose of in a sanitary landfill. Avoid contaminating water by disposal of equipment wash waters or other product wastes.

## 14. TRANSPORT INFORMATION

**DOT Shipping Description:** UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Citric Acid), 8, II

**15. REGULATORY INFORMATION**

**NFPA & HMIS Hazard Ratings:**

NFPA		HMIS
2 Health	0 Least	2 Health
0 Flammability	1 Slight	0 Flammability
0 Instability	2 Moderate	0 Reactivity
	3 High	H PPE
	4 Severe	

**SARA Hazard Notification/Reporting**

**SARA Title III Hazard Category:** Immediate Y Fire N Sudden Release of Pressure N  
Delayed N Reactive N

**Reportable Quantity (RQ) under U.S. CERCLA:** Not listed

**SARA, Title III, Section 313:** Not listed

**RCRA Waste Code:** Not listed

**16. OTHER**

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