

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name: Chroma ER Concentrate

MSDS Date: 06 May 2015

IKONICS Corporation
4832 Grand Ave.
Duluth, MN 55807
United States
www.ikonics.com
sds@ikonics.com

General Information: (218) 628-2217

(800) 328-4261 – Toll Free

CHEMTREC: 800-424-9300 – Within USA and Canada

+1 703-527-3887 – Outside USA and Canada (collect calls accepted)

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

GHS Classification:

Skin Corrosion, Category 1B

GHS Labeling



Symbol:

Signal Word: Danger

Hazard Statements:

Causes severe skin and eye damage

Precautionary Statements:

Prevention:

Do not breathe dusts or mists

Wash hands thoroughly after handling

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

Response:

If swallowed: Rinse mouth. DO NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to so.

Continue rinsing.

Storage:

Store locked up.

Disposal:

Dispose of content/ container to an approved waste disposal plant.

Potential Health Effects: See Section 11 for more information

This product does not contain carcinogens or potential carcinogens as listed by IARC, NTP, or ACGIH.

This material contains components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: See Section 12 for more information.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

No.	Component CAS REG. NO.	Amount %	OSHA		ACGIH	
			TWA	STEL	TWA	STEL
1	Periodic Acid CAS #10450-60-9	1-25	Not Avail	Not Avail	Not Avail	Not Avail

Section 4: FIRST AID MEASURES

Emergency first aid procedures by route of exposure:

- Inhalation:** Move victim to fresh air. Seek immediate medical attention. If breathing has stopped, perform artificial respiration if trained to do so and seek immediate medical help.
- Ingestion:** Do not induce vomiting. Promptly drink large quantities of water if conscious and get immediate medical attention. Do not give fluids to unconscious victim. If unconscious, seek emergency medical attention.
- Skin:** Remove contaminated clothing. Flush with large quantities of water for at least 15 minutes. Seek immediate medical attention.
- Eyes:** Immediately flush eyes with plenty of water for at least 5 minutes, remove contact lens if present, continue to flush with water for 15 more minutes. Seek immediate medical attention.

Section 5: FIRE FIGHTING MEASURES

- Flash Point:** Not flammable
Auto-ignition Temperature: Not available
Lower Explosion Limit: 0%
Upper Explosion Limit: 0%
Flammability Classification: Not flammable

FIRE AND EXPLOSION HAZARDS

Oxidizing agent. Can and will accelerate combustion of flammable materials.

EXTINGUISHING MEDIA

Water, dry foam.

PRODUCTS OF COMBUSTION:

Upon decomposition this product may emit carbon dioxide, carbon monoxide, and/or low molecular weight hydrocarbons.

HAZARD	HMIS	NFPA
Toxicity	2	2
Fire	0	0
Reactivity	0	0

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: For large spills wear gloves, Tyvek suits, safety glasses, and appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away.

Special Properties: Keep combustibles such as wood, paper, oil, flammables away from the spill.

Environmental Precautions: Prevent discharge to open bodies of water, municipal sewers, and watercourses.

Method for Containment: Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth. Control runoff and isolate discharged material for proper disposal. Approach release from upwind. Do not throw into the trash, any rags, scrap pieces of pallets or other material onto which periodic acid has been spilled!

Methods for Clean-up: Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container. Flush area of spill with water after removing the spill.

Section 7: HANDLING AND STORAGE

Handling:

Protect from heat and light. Do not throw even small spills into regular refuse containers as spontaneous combustion can occur.

Storage:

Keep container in a cool, dry place. Keep container tightly closed and sealed until ready for use. Protect from heat. Keep stored away from flammables and other combustibles.

Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protective Equipment (PPE)

Respiratory Protection: Wear appropriate respirator when ventilation is inadequate.

Eye/Face Protection: Splash proof chemical goggles or safety glasses with side shields.

Hand Protection: Wear chemically resistant gloves.

Body: Must use chemically resistant apron. Periodic acid solution will degrade cotton clothing when it is washed after exposure.

Other Protective Equipment:

Facilities storing or utilizing this material should be equipped with eyewash and safety shower facilities.

See section 3 for permissible exposure levels.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance, State	Clear liquid
Color	Colorless
Odor	Acidic
pH	1.0-2.5
Boiling Range	Not available
Vapor Pressure (periodic acid)	7.9
Melting Point	Not Available
Freezing Point	Not Available
Flash Point (See Section 5)	
Flammability Properties (See section 5)	
Solubility (in water)	Soluble
Specific Gravity	1.0324
Evaporation Rate	Not Available
Octanol/Water partition coefficient (Kow)	Not Available
Auto-ignition temperature:	Not Available
Decomposition temperature:	Not Available
Viscosity:	Not Available

Section 10: STABILITY AND REACTIVITY

Stability: This material is considered stable at ambient temperatures 70°C (21°C).

Condition to Avoid: High heat, open flame.

Incompatible Materials: Combustibles, reducing agents, organics. Can react violently with organics, or finely powdered metals, magnesium, ammonium perchlorate

Hazardous Decomposition: Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons. Toxic iodine fumes, hydrogen iodide.

Hazardous Reactions: This product will not undergo polymerization.

Section 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

Component Analysis LD50 No data available

CHRONIC EFFECTS:

Component

Periodic Acid (**CAS #10450-60-9**)

Carcinogenic Effects: Not listed as a carcinogen by IARC, and ACGIH.

Mutagenic Effects: Not Available.

Teratogenic Effects: Not Available

Developmental Toxicity: Not Available

Target Organs: Causes skin and eye burns. Destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Harmful if swallowed.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

Section 14: TRANSPORT INFORMATION

Proper Shipping Name: Corrosive, Liquid, Acidic, inorganic, n.o.s.

Hazard Class: 8

Identification No.: UN3264

Packing Group: III

Label: Corrosive

Section 15: REGULATORY INFORMATION

TSCA Inventory This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

SARA 302/304 The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

SARA 313: No components were identified.

CERCLA The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: No components were identified.

SARA 311/312 Hazard The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: Immediate (Acute) Health Hazard

Section 16: OTHER SUPPLEMENTAL INFORMATION

Last Revision Date: 28 August 2006

Preparation Date: 06 May 2015

Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext. 142

Disclaimer:

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