



**Chroma/Last**  
Material Safety Data Sheet  
Issued: 8/11/04  
Supercedes: 2/28/03

### **Section I - Chemical Product and Company Identification**

Manufacturers name IKONICS Corporation  
Address 4832 Grand Avenue, Duluth, MN 55807  
Telephone number 218 628-2217 Customer Service  
Emergency phone number 800 424-9300 Chemtrec USA / 703/527-3887 International (collect)  
Product name Chroma/Last  
Use Stencil Hardener

### **Section II – Hazardous Ingredients**

<u>Ingredients</u>	<u>Percent</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>VAPOR PSI</u>
Hydrochloric Acid	1-5%	7647-01-0	Not established	Not established	Not established

### **Section III – Physical Data**

Appearance Clear liquid  
Boiling point Not Applicable  
Weight (per gallon) 8.57 lb./gal.  
Percent volatile (by wt) 95%  
Solubility in water Complete  
Evaporation rate Not Established  
Vapor density Not Established  
VOC Not Applicable  
pH (concentrate) <2.0

### **Section IV – Fire and Explosion Data**

Flash point Not Applicable  
Extinguishing media Dry chemical, CO<sub>2</sub>, water spray, or foam.  
Unusual fire & explosion hazards None known.  
Special fire fighting procedures Wear self-contained breathing apparatus MSHA/NOISH approved or equivalent and full protective gear.

### **Section V – Health Hazard Data**

HMIS Codes 1-0-0-B & O Minimal=0, Slight=1, Moderate=2, Serious=3, Severe=4  
*Effects of overexposure*  
Eye contact Overexposure may cause irritation to eyes.  
Skin contact Overexposure may cause irritation to skin.  
Inhalation No specific information available.  
Ingestion No specific information available.  
*First aid emergency procedures*  
Eye Flush with plenty of water for at least 15 minutes and seek medical attention.  
Skin Wash with soap and water, should irritation occur, seek medical attention.  
Inhalation Remove to fresh air.  
Ingestion Seek medical attention immediately.

**Section VI – Reactivity Data**

Stability	Unstable___ Stable <u>X</u>
Conditions to avoid	None known.
Incompatibility (materials to avoid)	Strong alkalis, metals, amines, cyanides, sulfides and sulfites.
Hazardous decomposition products	HCL gas or flammable hydrogen gas.
Hazardous polymerization	May occur __ Will not occur <u>X</u>

**Section VII – Spill or Leak Procedures**

Spill cleanup instructions	Contain spills with absorbent material and dispose of saturated absorbent. Neutralize spill with soda ash. Use proper PPE when cleaning up a spill.
Waste disposal method	Dispose of in accordance with federal, state, and local laws.

We make no guarantee or warranty of any kind that the use or disposal of this product is in compliance with all federal, state, or local laws. It is the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

**Section VIII – Control Measures / Personal Protection**

Engineering controls	Ventilation – Local exhaust recommended but not required.
<i>Personal Protection Equipment (PPE)</i>	
Gloves	Rubber or neoprene gloves are required.
Eye	Personal eye protection is required.
Respiratory	Not required.
Where contact may occur	Use a face shield, impervious body coverings, and boots (if exposure is severe).
Safety shower and eyewash	Should be available.

**Section IX – Handling and Storage**

Handling and storage information	Store away from incompatible materials. Store away from extreme heat since pressure (steam) can build up. Industrial use only. Keep out of reach of children. Do not take internally. Avoid splashing in eyes.
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**Section X – Regulation Information**

DOT classification	Corrosive liquids, n.o.s. (solution of hydrochloric acid), Class 8, UN1760, PG III.
TSCA	All ingredients are listed chemicals in the TSCA registry.
SARA Title III	This product does contain chemicals subject to the reporting of requirements of SARA Title III, Section 313, and 40 CFR Part 372. Hydrochloric Acid CAS# 7647-01-0 <2%.

Approved by: VP Technology, Toshi Komatsu 218 628-2217 ext.142

Notice to reader

(Approved by U.S. Department of Labor “Essentially Similar” to form OSHA-20)  
The information contained herein is based on data available to us and is believed to be correct. Since this information may have been obtained in part from independent laboratories or other sources not under direct supervision, no representation is made that the information is accurate, reliable, complete, or representative and Buyer may rely thereon only at the Buyer’s risk. We make no guarantee that the health and safety precautions we have suggested will be adequate for all individuals and / or situations involving its handling and uses. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet.