



AN IKONICS COMPANY

**CT420D SPIKE**  
Material Safety Data Sheet  
Issued: 2/20/04  
Supercedes: 7/18/01

**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 SPIKE CT 420D  
Use Water based emulsion

**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> |
|--------------------|----------------|-------------|-----------------|-----------------------|------------------|
| Isopropanol        | 1.0%           | 67-63-0     | 400 ppm         | 980 mg/M <sup>3</sup> | 32 mm/Hg. 20°C   |

**Section III – Physical Data**

Appearance Red liquid emulsion  
Boiling point 100° C (212° F)  
Weight (per gallon) 9.04 lb/gal.  
Percent volatile (by wt) 50%  
Solubility in water Miscible  
Evaporation rate Slower, than water  
Vapor density Heavier, than air  
VOC Not Applicable

**Section IV – Fire and Explosion Data**

Flash point Greater than 170° F  
Extinguishing media Class B fire extinguisher  
Unusual fire & explosion hazards Under high heat, decomposition products may present a hazard.  
Special fire fighting procedures For full protection, fire fighters are recommended to wear NIOSH-MSHA approved self-contained breathing apparatus and chemical resistant clothing.

**Section V – Health Hazard Data**

HMIS Codes 1-0-1-H&O Minimal=0, Slight=1, Moderate=2, Serious=3, Severe=4

*Effects of overexposure*

Eye contact No specific information available. May cause irritation.  
Skin contact No specific information available. May cause irritation.  
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 Drink water, do not induce vomiting. Consult physician or poison control center.

**Section VI – Reactivity Data**

Stability Unstable\_\_\_ Stable X  
Conditions to avoid Strong light and high heat.  
Incompatibility (materials to avoid) Light, heat, oxidizers  
Hazardous decomposition products If burned, will give off oxides of nitrogen, CO<sub>2</sub> and CO.  
Hazardous polymerization May occur \_\_\_ Will not occur X

**Section VII – Spill or Leak Procedures**

Spill cleanup instructions Wash with copious amounts of water. Absorb diluted spill and dispose.  
Use proper PPE when cleaning up a spill.  
Waste disposal method Either A) Incinerate at authorized facility or B) Landfill in authorized facility  
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. Provide adequate  
ventilation as necessary.  
*Personal Protection Equipment (PPE)*  
Gloves Rubber or neoprene gloves are required.  
Eye Personal eye protection is required.  
Respiratory Wear O.S.H.A. (29CFR 1910.134) protection as necessary. Do not breathe  
vapors or mists.  
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 between 50°F-80°F for maximum storage life.  
Other precautions Industrial use only. Keep out of reach of children.  
Do not take internally. Avoid splashing in eyes.

**Section X – Regulation Information**

DOT classification Not a DOT controlled material (United States). Does not sustain combustion  
according to ASTM 4206 or Appendix H procedures in 49 CFR 173.120 (a) (3).  
TSCA All ingredients are listed chemicals in the TSCA registry.  
California (Prop 65) This product contains chemical(s) known to the State of California to cause  
cancer (c) or reproductive (r) damage.  
<0.00005199% 1, 4 Dioxane (c) 123-91-1 Listed January 1, 1988  
<0.000004% Arsenic (c)(r) N/A N/A  
<0.000001% Cadmium (c)(r) N/A N/A  
<0.0000008% Chromium (c)(r) N/A N/A  
<0.000003% Lead (c)(r) N/A N/A  
<0.000003% Mercury (c)(r) N/A N/A

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)

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