



**D-2 Emulsion**  
Material Safety Data Sheet  
Issued: 2/20/04  
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**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 D-2  
Use Transfer 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	≤ 8.5%	67-63-0	400 ppm	980 mg/M <sup>3</sup>	30.9 mm/Hg. 20°C

**Section III – Physical Data**

Appearance White colored liquid emulsion.  
Boiling point 200° F- 215° F  
Weight (per gallon) 8.70 lb/gal.  
Percent volatile (by wt) .75%  
Solubility in water 100% dispersible  
Evaporation rate Not Established  
Vapor density Not Established  
VOC Not Applicable

**Section IV – Fire and Explosion Data**

Flash point 100°F  
Extinguishing media Foam, CO<sub>2</sub>, dry chemical, or water spray.  
Unusual fire & explosion hazards None  
Special fire fighting procedures None

**Section V – Health Hazard Data**

HMIS Codes 1-0-0-B Minimal=0, Slight=1, Moderate=2, Serious=3, Severe=4

*Effects of overexposure*

Eye contact No specific information available. Eye contact will 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 If appreciable quantities are swallowed, seek medical attention

**Section VI – Reactivity Data**

Stability	Unstable ___ Stable <u>X</u>
Conditions to avoid	None
Incompatibility (materials to avoid)	None
Hazardous decomposition products	Prolonged exposure to heat may yield aldehydes, acetic acid and oxides of carbon.
Hazardous polymerization	May occur ___ Will not occur <u>X</u>

**Section VII – Spill or Leak Procedures**

Spill cleanup instructions	Contain and remove with inert absorbent material. Caution: Liquid emulsion and diluted emulsion can pose a potential slippage problem in walkways. 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. Provide adequate ventilation as necessary.
<i>Personal Protection Equipment (PPE)</i>	
Gloves	Rubber or neoprene gloves are recommended.
Eye	Personal eye protection is recommended.
Respiratory	Not required.
Where contact may occur	Use proper PPE.
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. <0.00095% Acetaldehyde (c) 75-07-0 Listed April 1, 1988 <0.0006% Ethylene oxide (c) 75-21-8 Listed July 1, 1987 <0.0006% Hydrazine (c) 302-01-2 Listed January 1, 1988 <0.0001% Methyl Iodine (c) 74-88-4 Listed April 1, 1988 <0.00055% Toluene (r) 108-88-3 Listed January 1, 1991

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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