



AN IKONICS COMPANY

UDC HVZ1

Material Safety Data Sheet

Issued: 2/17/04

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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 UDC HVZ1
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>
Acrylate Oligomers	Trade secret	Trade secret	Not established	Not established	Not established
Acrylate Monomers	Trade secret	Trade secret	Not established	Not established	Not established
Photoinitiators	Trade secret	Trade secret	Not established	Not established	Not established

Section III – Physical Data

Appearance Red liquid emulsion
Boiling point 100° C (212° F)
Weight (per gallon) 8.82 lb/gal.
Percent volatile (by wt) 63%
Solubility in water Miscible
Evaporation rate Not Established
Vapor density Not Established
VOC Not Applicable

Section IV – Fire and Explosion Data

Flash point Greater than 200° F
Extinguishing media Class B fire extinguisher
Unusual fire & explosion hazards Under high heat, decomposition 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 1-1-1-H&O Minimal=0, Slight=1, Moderate=2, Serious=3, Severe=4

Effects of overexposure

Eye contact No specific information available. May cause eye injury.
Skin contact May cause severe skin injury or allergic reaction. May cause blister formation (burns).
Inhalation No specific information available. Low volatility makes vapor inhalation unlikely.
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	Strong light and high heat.
Incompatibility (materials to avoid)	None
Hazardous decomposition products	Carbon monoxide & carbon dioxide
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 material.
Waste disposal method	Place leaking container in a well ventilated area. Dilute the spill with water and absorb the spill with inert material and dispose in accordance with federal, state, and local laws. Use proper PPE when cleaning up a spill.

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 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 away from extreme heat and do not freeze.
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).
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. <0.0002% Acetaldehyde (c) 75-07-0 Listed April 1, 1988

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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