



AN IKONICS COMPANY

Direct to Screen / DTS Z-1
Material Safety Data Sheet
Issued: 6/12/07
Supercedes: 9/19/06

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 Direct to Screen/ Z-1
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
Isopropanol	5%	67-63-0	400 ppm	980 mg/M ³	32 mm/Hg, 20°C

Section III – Physical Data

Appearance Purple liquid emulsion
Boiling point 100° C (212° F)
Weight (per gallon) 8.90 lb/gal.
Percent volatile (by wt) 55-60%
Solubility in water Miscible
Evaporation rate Slower, than water
Vapor density Heavier, than air
VOC 53.40 g/l

Section IV – Fire and Explosion Data

Flashpoint 110° 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&Q Minimal=0, Slight=1, Moderate=2, Serious=3, Severe=4
Effects of overexposure
Eye contact No specific information available.
Skin contact Irritation may occur with prolonged contact 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 If appreciable quantities are swallowed, seek medical attention. Do not induce vomiting.

Section VI – Reactivity Data

Stability	Unstable___ Stable <u>X</u>
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 ₂ and CO.
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 – Provide adequate ventilation as necessary.
<i>Personal Protection Equipment (PPE)</i>	
Gloves	Required.
Eye	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. 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. <0.0034 % Acetaldehyde (c) 75-07-0 Listed April 1, 1988 <0.0003 % Ethylene oxide (c) 75-21-8 Listed July 1, 1988 <0.0003 % Hydrazine (c) 302-01-2 Listed January 1, 1988 <0.0007 % Toluene (r) 108-88-3 Listed January 1, 1991 <0.000003 % 1,4 Dioxane (c) 123-91-1 Listed January 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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