



# MATERIAL SAFETY DATA SHEET

## R-5 RED CONCENTRATE

United Initiators SPI,  
Inc.  
Helena, AR

### SECTION 1 - IDENTIFICATION OF THE PRODUCT AND THE COMPANY

|                 |   |                          |                |
|-----------------|---|--------------------------|----------------|
| PRODUCT NAME    | R-5 Red Concentrate   | TELEPHONE                | 870-572-2935   |
| MANUFACTURER    | United Initiators SPI, Inc.   | CHEMTREC (24hr) (USA)    | 800-424-9300   |
| ADDRESS         | 334 Phillips 311 Rd., Helena, AR 72342  | (Maritime/International) | 703-527-3887   |
| CHEMICAL NAME   | Mixture of 2-Naphthalenol [(phenyl azo) phenyl] azo alkyl derivatives and 1,3-Benzenediol, 2,4-bis [(alkylphenyl) azo] in dimethyl phthalate and xylene | CAS NO.                  | See section 2. |
| CHEMICAL FAMILY | Diazo dye in xylene and DMP   | CHEMICAL FORMULA         | Mixture.       |

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENTS   | CAS NO.   | %                  |
|--|-----------|--------------------|
| Dimethyl Phthalate   | 131-11-3  | 45                 |
| Xylene (mixed)   | 1330-20-7 | 19                 |
| Ethyl Benzene  | 100-41-4  | 3.5                |
| 2-Naphthalenol [(phenyl azo) phenyl] azo alkyl derivatives |           | 32.5 for remaining |
| 1,3-Benzenediol, 2,4-bis [(alkylphenyl) azo-]              |           | 2 ingredients      |

### SECTION 3 - HAZARD IDENTIFICATION OF THE PREPARATION

|                          |  |
|--------------------------|--|
| PHYSICAL HAZARDS         | Fire hazard, combustible liquid.   |
| HEALTH HAZARDS           | Irritant.  |
| EXPOSURE LIMITS          | TWA - Xylene (mixed) 100 ppm, dimethyl phthalate 5 mg/m <sup>3</sup> .   |
| ROUTES OF EXPOSURE       |  |
| Skin Contact             | May cause irritation, and will stain the skin red.   |
| Eye Contact              | Eye contact may cause inflammation.  |
| Ingestion                | May cause human systemic effects by ingestion.   |
| Inhalation               | May cause respiratory distress. May affect the brain or nervous system causing dizziness, headache or nausea.                        |
| EFFECTS OF OVER-EXPOSURE | Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. |

### SECTION 4 - FIRST-AID MEASURES

|            |  |
|------------|--|
| SKIN       | Wash contaminated area thoroughly with soap and water.   |
| EYES       | Remove any contact lenses at once. Flush eyes with water for at least 15 minutes and seek medical attention.   |
| INGESTION  | Contact a physician, hospital or Poison Control Center at once. <b>DO NOT INDUCE VOMITING.</b>   |
| INHALATION | Immediately remove to fresh air, if coughing, breathing becomes labored, irritation develops or other symptoms develop, seek medical attention at once, even if symptoms develop several hours after the exposure. |

### SECTION 5 - FIRE-FIGHTING MEASURES

|                                    |  |
|------------------------------------|--|
| FLASH POINT                        | 104°F (40°C), SETA CC  |
| FLAMMABLE LIMITS                   | LEL 1% - UEL 7%  |
| AUTOIGNITION POINT                 | Not established.   |
| EXTINGUISHING MEDIA                | Water from a safe distance - preferably with a fog nozzle. In case of very small fires, other means such as carbon dioxide, foam or dry chemical extinguishers may be effective. |
| SPECIAL FIRE FIGHTING PROCEDURES   | Firefighters should be equipped with protective clothing and SCBA's. In case of fire near storage area, cool the containers with water spray.                                    |
| UNUSUAL FIRE AND EXPLOSION HAZARDS | During a fire, irritating and highly toxic gases may be generated by combustion. Residue from fire or spill is a red dye.  |

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### SECTION 6 - ACCIDENTAL RELEASE MEASURES

|  |   |
|--|---|
| STEPS TO BE TAKEN IN EVENT OF SPILL OR RELEASE | Evacuate area of all unnecessary personnel. Remove all sources of ignition. Refer to protective measures listed in sections 7 and 8. Spilled material should be swept up with an inert, moist diluent such as perlite, vermiculite, or sand. Keep spilled material from entering drains, sewers, streams, etc. Carefully collect the material using non-sparking tools and transfer into a clean polyethylene lined or a polyethylene drum disposal container. Label container and store in a secure area for proper disposal. Prevent material from entering drains, sewers, streams, etc. |
|--|---|

### SECTION 7 - HANDLING AND STORAGE

|                   |   |
|-------------------|---|
| HANDLING          | Keep containers tightly closed. Rotate stock using the oldest material first. Take precautionary measures against static discharge. <b>DO NOT USE NEAR FOOD OR DRINK.</b> Avoid skin and eye contact. Avoid breathing vapors and use with adequate ventilation. Wear personal protection equipment recommended in section 8. Reseal containers immediately after use. |
| STORAGE           | Keep material in its original container away from any incompatible materials, direct sunlight or other sources of heat. <b>DO NOT STORE WITH FOOD OR DRINK.</b> Store in an isolated, cool and well-ventilated area.  |
| OTHER PRECAUTIONS | Containers of this material may be hazardous when empty since they retain product residues, observe all warnings and precautions listed. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities.  |

### SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

|                        |   |
|------------------------|---|
| VENTILATION            | Use with adequate ventilation.  |
| RESPIRATORY PROTECTION | If airborne concentrations are expected to exceed acceptable levels wear a NIOSH approved air-purifying respirator with an organic vapor cartridge or canister. When using respirators refer to OSHA's 29CFR 1910.134. In case of spill or leak of unknown concentration, use NIOSH approved supplied air respirator. |
| EYE PROTECTION         | Safety goggles recommended, goggles with a face shield are preferred.   |
| HAND PROTECTION        | Protective gloves recommended, solvent resistant.   |
| OTHER                  | A safety shower and eyewash is highly recommended when the risk of a significant exposure exists.   |

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

|                       |   |                   |                       |
|-----------------------|---|-------------------|-----------------------|
| APPEARANCE AND ODOR:  | Intensely red liquid, slight aromatic odor. |                   |                       |
| BOILING POINT:        | 280°F (138°C)                               | SPECIFIC GRAVITY: | 1.1 (Water = 1)       |
| VAPOR PRESSURE:       | 5mmHG @ 65°F                                | FLASH POINT:      | 104°F (40°C), SETA CC |
| VAPOR DENSITY:        | >1  | FLAMMABLE LIMITS: | LEL 1% - UEL 7%       |
| EVAPORATION RATE:     | 9.5 (ethyl ether = 1)                       | SADT:             | Not applicable.       |
| % VOLATILE BY VOLUME: | 67  | pH:               | Not applicable.       |
| SOLUBILITY IN WATER:  | Insoluble.                                  |                   |                       |

### SECTION 10 - STABILITY AND REACTIVITY

|                                  |   |
|----------------------------------|---|
| STABILITY                        | <b>Stable</b> under normal conditions of use.   |
| CONDITIONS TO AVOID              | Storage in direct sunlight, high temperatures, flames, sparks. Prevent product contamination. |
| MATERIALS TO AVOID               | Oxidizers, acids. May react with reducing agents to liberate free amine(s).                   |
| HAZARDOUS DECOMPOSITION PRODUCTS | Unknown.  |
| HAZARDOUS POLYMERIZATION         | Will not occur.   |

### SECTION 11 - TOXICOLOGICAL INFORMATION

#### Dimethyl Phthalate

##### Hazard Data:

Inhalation: Cat--LC<sub>50</sub>: 9300 mg/m<sup>3</sup>/6.5 hr.

Intraperitoneal: Mouse--LD<sub>50</sub>: 1380 mg/kg.

Oral: Rat & Mouse--LD<sub>50</sub>: 6800 mg/kg, somnolence behavioral, withdrawal nutritional and gross metabolic, weight loss or decreased weight gain; Dog--LD: >1400 mg/kg; Rabbit--LD<sub>50</sub>: 4400 µL/kg.

Subcutaneous: Mouse--LD<sub>50</sub>: 6500 mg/kg, dyspnea lung, thorax, respiration, or cyanosis.

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## Xylene

### Hazard Data:

Inhalation: Rat--LC<sub>50</sub>: 5000 ppm/4-hours

Oral: Rat--LD<sub>50</sub>: 4300 mg/kg

## Ethyl Benzene

### Hazard Data:

Dermal: Rabbit--LD<sub>50</sub>: 17800 mg/kg.

Oral: Rat--LD<sub>50</sub>: 3500 mg/kg.,

## SECTION 12 - ECOLOGICAL INFORMATION

No data is available on the preparation itself. The product should be prevented from entering drains, sewers, streams, etc.

## SECTION 13 - DISPOSAL CONSIDERATIONS

Prevent material from entering drains, sewers, streams, etc.

Immediately dispose of waste material at a RCRA approved hazardous waste management facility in accordance with federal, state and local regulations.

## SECTION 14 - TRANSPORT INFORMATION

### By Ground

DOT Shipping Name: COMBUSTIBLE LIQUID, N.O.S.  
(XYLENE)

DOT Hazard Class: NA

UN/NA ID No.: NA1993

DOT Packing Group: PG III

### By Air or Sea

DOT Shipping Name: FLAMMABLE LIQUID, N.O.S.  
(XYLENE)

DOT Hazard Class: 3

UN/NA ID No.: UN1993

DOT Packing Group: PG III

2012 ERG GUIDE NO.: 128

## SECTION 15 - REGULATORY INFORMATION

The following chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

| Chemical Name      | CAS Number | Percent |
|--------------------|------------|---------|
| Dimethyl Phthalate | 131-11-3   | 45      |
| Xylene             | 1330-20-7  | 19      |
| Ethyl Benzene      | 100-41-4   | 3.5     |

### Reportable Quantities

Xylene: 100 lbs (45.4 kg)

Ethyl Benzene: 1000 lbs (454 kg)

### Australian Inventory of Chemical Substances (AICS)

The ingredients in this product are listed in the Australian AICS Inventory.

### Canadian Domestic Substances List (DSL)

The ingredients in this product are listed in the Canadian DSL Inventory.

### Chinese Inventory of Existing Chemical Substances Manufactured or Imported in China (IECSC)

The ingredients in this product are listed in the Chinese IECSC Inventory.

### European Inventory of Existing Commercial Chemical Substances (EINECS)

The ingredients in this product are listed in the European EINECS Inventory.

### US Toxic Substances Control Act (TSCA)

The ingredients in this product are listed in the US TSCA Inventory.

### Status of Carcinogenicity

Not recognized as a carcinogen by the IARC, NTP or OSHA.

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## SECTION 16 - OTHER INFORMATION

### VOC Information

Using ASTM Test Method D-2369-87, R-5 Red Concentrate contains 51.9% VOC, by weight, or 571 grams per liter. For more information, call United Initiators SPI, Inc.

### NFPA 704 Rating

| Health | Flammability | Reactivity |
|--------|--------------|------------|
| 2      | 2            | 0          |

### HMIS Rating

| Health | Flammability | Reactivity |
|--------|--------------|------------|
| 2      | 2            | 0          |

MSDS Reference: R-5 MSDS 1305.doc

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