



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 1,3-Benzenediol, 2,4-bis [(alkylphenyl) azo-]		32.5 for remaining 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 ³ .
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. DO NOT INDUCE VOMITING.
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. **DO NOT USE NEAR FOOD OR DRINK.** 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. **DO NOT STORE WITH FOOD OR DRINK.** 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

Stable 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--LC₅₀: 9300 mg/m³/6.5 hr.

Intraperitoneal: Mouse--LD₅₀: 1380 mg/kg.

Oral: Rat & Mouse--LD₅₀: 6800 mg/kg, somnolence behavioral, withdrawal nutritional and gross metabolic, weight loss or decreased weight gain; Dog--LD: >1400 mg/kg; Rabbit--LD₅₀: 4400 µL/kg.

Subcutaneous: Mouse--LD₅₀: 6500 mg/kg, dyspnea lung, thorax, respiration, or cyanosis.

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Xylene

Hazard Data:

Inhalation: Rat--LC₅₀: 5000 ppm/4-hours

Oral: Rat--LD₅₀: 4300 mg/kg

Ethyl Benzene

Hazard Data:

Dermal: Rabbit--LD₅₀: 17800 mg/kg.

Oral: Rat--LD₅₀: 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
2

Flammability
2

Reactivity
0

HMIS Rating

Health
2

Flammability
2

Reactivity
0

MSDS Reference: R-5 MSDS 1305.doc

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