

# MATERIAL SAFETY DATA SHEET

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Rust Encapsulator Red  
Part No. 16043Z Liquid  
Revision 4 ♦ May 2, 2012

## EMERGENCY OVERVIEW

**FLAMMABLE LIQUID.** STORE AWAY FROM HEAT SOURCES. AVOID CONTACT WITH SKIN AND EYES. VAPOR HARMFUL. HARMFUL OR FATAL IF SWALLOWED. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

## SECTION 1 ● CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MANUFACTURED FOR:** The Easthill Group  
dba/ The Eastwood Company  
263 Shoemaker Road  
Pottstown, PA 19464  
USA & Canada: 800-345-1178  
Outside USA: 610-323-2200  
Chem-Trec 800-424-9300

**SUPPLIER:** The Easthill Group  
263 Shoemaker Road  
Pottstown PA 19464 USA

**INFORMATION:**

**EMERGENCY:**

**SUPPLIER PHONE:** 610-323-2200

**SUPPLIER 24hr:**

**PRODUCT NUMBERS:** 16045ZP  
16043Z  
16049ZP

**SUPPLIER NUMBERS:** 16045ZP  
16043Z  
16049ZP

**PRODUCT DESCRIPTIONS:** Rust Encapsulator Red

**PRODUCT TYPE:** Liquid

**CAS NUMBER:** Mixture

**EMAIL:**

**WEBSITE:**

**REVISION NUMBER:** 4

**REVISION DATE:** May 1, 2012

**PRINT DATE:** May 2, 2012

## SECTION 2 ● COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	OSHA PEL	NIOSH PEL	ACGIH PEL	IDLH	% WT
Xylene	001330-20-7	100 ppm	100 ppm	100 ppm	900 ppm	20-30
Hydrotreated Light Petroleum Naphtha	064742-47-8	N/E	N/E	N/E	N/E	< 10
Ethyl Benzene	000100-41-4	100 ppm	100 ppm	100 ppm	800 ppm	< 10
Zinc Oxide	001314-13-2	5 mg/m3	5 mg/m3	2 mg/m3	500 mg/m3	< 10
Stoddard Solvent	008052-41-3	500 ppm	350 mg/m3	100 ppm	20K mg/m3	< 10
Trimethyl Benzene	025551-13-7	N/E	25 ppm	25 ppm	N/E	< 10
Dichlorodimethylsilane	068611-44-9	N/E	N/E	N/E	N/E	< 10
Methyl Ethyl Ketone	000078-93-3	200 ppm	200 ppm	200 ppm	3000 ppm	< 10

## SECTION 3 ● HAZARD IDENTIFICATION

### ROUTES OF EXPOSURE:

Skin Contact	✓	Skin Absorption	✓	Eye Contact	✓	Inhalation	✓	Ingestion	✓
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### SIGNS AND SYMPTOMS OF ACUTE EXPOSURE

**EYE:** Liquid contact may cause pain along with moderate eye irritation which may be slow to heal. May cause slight corneal injury. Vapors may cause irritation.

**SKIN:** Prolonged or repeated exposure may cause skin irritation, even a burn. Repeated contact may cause drying or flaking of skin. May cause more severe response if confined to skin. Extensive skin contact may cause an intense burning sensation followed by a cold, numb feeling which will subside after contact.

**INGESTION:** May cause irritation to membranes of the mouth, throat, and gastrointestinal tract resulting in vomiting and/or cramps. Aspiration of vomit into the lungs may cause inflammation, possible chemical pneumonitis, bronchopneumonia, or pulmonary edema.

**INHALATION:** Prolonged or repeated overexposure is anesthetic. May cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, confusion or death. Irritation of the mucous membranes, coughing, and dyspnoea are also possible.

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## OTHER HEALTH HAZARD DATA

**CHRONIC EFFECTS:** Reports have associated repeated and prolonged occupational overexposure to solvents with irreversible brain and nervous system damage (sometimes referred to as "Solvent or Painter's Syndrome"). Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

**MEDICAL CONDITIONS AGGRAVATED:** May aggravate personnel with pre-existing disorders associated with any of the Target Organs.

**PRIMARY HAZARDS:** Sensory Irritation (xylene, ethyl benzene, methyl ethyl ketone), Narcosis (stoddard solvent), Systemic Toxicity (trimethyl benzene)

**CARCINOGEN DATA:** Ethyl Benzene is listed with IARC as Class 2B (possible human carcinogen) and with ACGIH as A3 (confirmed animal carcinogen with unknown relevance to humans). None of the other ingredients are listed with any agency as carcinogenic.

**TARGET ORGANS:** Eyes, skin, respiratory system, central nervous system, kidneys

## OSHA HAZARD CLASSIFICATIONS

HEALTH HAZARD CLASSIFICATION			PHYSICAL HAZARD CLASSIFICATION					
Irritant	✓	Sensitizer		Combustible		Explosive		Pyrophoric
Toxic	✓	Highly Toxic		Flammable	✓	Oxidizer		Water Reactive
Corrosive		Carcinogenic		Compressed Gas		Organic Peroxide		Unstable

## SECTION 4 ● FIRST AID MEASURES

**INGESTION:** Do not induce vomiting! Immediately have the victim drink plenty of water. Do not give milk or digestible oils. Keep airways free. Contact a physician. Never give anything by mouth to an unconscious person.

**SKIN:** Remove with soap and water. Consult a physician if irritation continues. If large skin area is affected, remove contaminated clothing.

**EYE:** Immediately flush with plenty of clear water for at least 15 minutes. Make sure to flush under the eyelids. Consult a physician.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist or if unconscious.

**NOTES TO PHYSICIAN:** After ingestion of large amount, gastric lavage may be a consideration.

## SECTION 5 ● FIRE FIGHTING MEASURES

**FLASH POINT:** < 50 deg F

**FLAMMABLE LIMITS:** Lower (LEL): N/D Upper (UEL): N/D

**MEANS OF EXTINCTION:** Water, CO2, dry chemical, or universal aqueous film forming foam.

**SPECIAL FIRE FIGHTING PROCEDURES:** Use water spray to cool fire exposed aerosol containers, as contents can rupture violently from heat developed pressure. Firemen should wear self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Contents combustible and will release vapors when heated above ambient temperatures. In addition, when liquid or vapor comes into contact with flames or red hot metal, products of combustion may be created.

## SECTION 6 ● ACCIDENTAL RELEASE MEASURES

**SPILL OR LEAK PROCEDURES:** Warning— Flammable. Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak only if safe to do so.

**SPILL CLEANUP:** Dike and contain. If vapor cloud forms, water fog may be used to suppress; contain all water run-off. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material. Do not use combustible materials such as sawdust. Place in approved safety containers for proper disposal.

**REPORTING REQUIREMENTS:** Comply with all applicable federal, state, or local reporting requirements.

## SECTION 7 ● HANDLING AND STORAGE

**HANDLING:** When using in spray application, conform to NFPA 33 Spray Applications using Flammable and Combustible Materials.

**STORAGE:** For storage of all flammable materials, conform to NFPA 30 Flammable and Combustible Liquid. Keep containers tightly closed and stored in a well-ventilated place. Keep away from sources of ignition and heat.

**EMPTY CONTAINER WARNING:** Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner. All other containers should be disposed of

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in an environmentally safe manner and in accordance with governmental regulations.

## SECTION 8 ● EXPOSURE CONTROL/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be necessary to control air contamination below that of the lowest PEL rated ingredient from Section 2.

**SKIN PROTECTION:** For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or repeated contact could occur, use protective clothing impervious to the ingredients listed in Section 2.

**EYE PROTECTION:** Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles are recommended.

**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required, an appropriate NIOSH approved respirator for organic vapor should be worn. If respirators are needed, ensure compliance with any regulating code, such as OSHA 29 CFR 1910.134 in the United States.

**EXPOSURE LIMITS:** Since this product is a mixture, an exposure value is not available. In determination of any exposure procedures, protection, or testing, use the lowest rated ingredient from Section 2.

## SECTION 9 ● PHYSICAL AND CHEMICAL PROPERTIES

<b>BOILING POINT:</b> . . . . .	N/D	<b>MELTING/FREEZING POINT:</b> . . .	N/D
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b> . . .	1.28 g/cm3	<b>COEFF. OF WATER/OIL DIST.:</b> . . .	N/D
<b>VAPOR PRESSURE:</b> . . . . .	N/D	<b>pH:</b> . . . . .	Neutral
<b>VAPOR DENSITY:</b> . . . . .	N/D	<b>EVAPORATION RATE:</b> . . . . .	Rapid
<b>PHYSICAL STATE:</b> . . . . .	Liquid Coating	<b>WATER SOLUBILITY:</b> . . . . .	N/D
<b>PERCENT VOLATILE:</b> . . . . .	42% Wt (42% Vol) Max	<b>VOLATILITY:</b> . . . . .	4.422 lbs/gal (0.531 g/cc)
<b>PERCENT VOC:</b> . . . . .	42% Wt (42% Vol) Max	<b>MIR VALUE:</b> . . . . .	2.550
<b>VISCOSITY:</b> . . . . .	N/D	<b>ODOR THRESHOLD:</b> . . . . .	N/D
<b>APPEARANCE:</b> . . . . .	Dull Red Coating	<b>ODOR:</b> . . . . .	Paint-Like

## SECTION 10 ● STABILITY AND REACTIVITY

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Heat, sparks, flame, red hot metal

**MATERIAL INCOMPATIBILITY:** Strong oxidizing agents, amines, ammonia, inorganic acids, caustics, isocyanates, pyridines

**CONDITIONS OF REACTIVITY:** N/Av

**DECOMPOSITION PRODUCTS:** Oxides of carbon

**HAZARD POLYMERIZATION:** Not expected to occur.

## SECTION 11 ● TOXICOLOGICAL INFORMATION

### LD50 AND LC50 VALUES:

INGREDIENT	ORAL LD50	DERMAL LD50	INHALATION LC50
Xylene	2840 mg/kg, rat	4500 mg/kg, rabbit	5000 ppm /4hr, rat
Hydrotreated Light Petroleum Naphtha	N/Av	N/Av	N/Av
Ethyl Benzene	3500 mg/kg, rat	15500 mg/kg, rabbit	N/Av
Zinc Oxide	> 5000 mg/kg, rat	N/Av	N/Av
Stoddard Solvent	N/Av	500 mg/kg, rabbit	N/Av
Trimethyl Benzene	N/Av	N/Av	N/Av
Dichlorodimethylsilane	> 5000 mg/kg, rat	N/Av	N/Av
Methyl Ethyl Ketone	>2600 mg/kg, mouse	>8000 mg/kg, rabbit	20 mg/l /4 hr, rat

## SECTION 12 ● ECOLOGICAL INFORMATION

**OTHER ECOLOGIC DATA:** Do not allow to enter waters, waste water, or soil.

**EFFECT ON THE OZONE LAYER:** This product does not contain any ozone depleting ingredients.

### AQUATIC TOXICITY:

INGREDIENT	FISH LC50	DAPHNIA EC50	ALGAE IC50	BACTERIAL EC50
Xylene	14 mg/l /96 hr	165 mg/kg /24 hr	N/Av	N/Av
Hydrotreated Light Petroleum Naphtha	N/Av	N/Av	N/Av	N/Av

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INGREDIENT	FISH LC50	DAPHNIA EC50	ALGAL IC50	BACTERIAL EC50
Ethyl Benzene	44 mg/l /24 hr	N/Av	N/Av	N/Av
Zinc Oxide	N/Av	N/Av	N/Av	N/Av
Stoddard Solvent	N/Av	N/Av	N/Av	N/Av
Trimethyl Benzene	N/Av	N/Av	N/Av	N/Av
Dichlorodimethylsilane	N/Av	N/Av	N/Av	N/Av
Methyl Ethyl Ketone	3220 mg/l /96 hr	5061 mg/l /48 hr	>4300 mg/l /7	1150 mg/l /16 hr

## SECTION 13 ● DISPOSAL CONSIDERATIONS

**WASTE MANAGEMENT INFORMATION:** When disposing of the unused contents, the preferred options are to send to a licensed reclaimer or to permitted incinerators. Any disposal practice must be in compliance with local, state, and federal laws and regulations (contact local or state environmental agency for specific rules). Do not dump into sewers, on the ground, or into any body of water. Waste should be tested for ignitability to determine the applicable hazardous waste identification number.

## SECTION 14 ● TRANSPORTATION INFORMATION

### DOT SHIPPING INFORMATION (United States)

PROPER SHIPPING NAME: . Paint Related Material

HAZARD CLASS: ..... 3

PACKAGING GROUP: ..... II

UN or ID NUMBER: ..... UN1263

### ICAO/IATA SHIPPING INFORMATION (International Air)

PROPER SHIPPING NAME: Paint Related Material

HAZARD CLASS: ..... 3

PACKAGING GROUP: ..... II

UN or ID NUMBER: ..... UN1263

## SECTION 15 ● REGULATORY INFORMATION

### UNITED STATES - FEDERAL

INGREDIENT	CAS NO	TSCA	RCRA	CERCLA	SARA 313	CAA	CWA
Xylene	001330-20-7	✓	U239	100 #	23.4 %	XOV	100 #
Hydrotreated Light Petroleum Naphtha	064742-47-8	✓	—	—	—	—	—
Ethyl Benzene	000100-41-4	✓	U208	1000 #	4.3 %	V	1000 #
Zinc Oxide	001314-13-2	✓	—	—	—	—	—
Stoddard Solvent	008052-41-3	✓	—	—	—	—	—
Trimethyl Benzene	025551-13-7	✓	—	—	—	—	—
Dichlorodimethylsilane	068611-44-9	✓	—	—	—	—	—
Methyl Ethyl Ketone	000078-93-3	✓	U159	5000 #	1.0 %	—	—

### UNITED STATES - STATES

INGREDIENT	CA	DE	FL	MA	PA	MN	NJ	NY	WA
Xylene	—	✓	✓	2,4 F8 F9	E	ANO	✓	✓	✓
Hydrotreated Light Petroleum Naphtha	—	✓	—	—	—	—	—	—	—
Ethyl Benzene	—	✓	✓	2,4,5,6 F7 F8 F9	E	AO	✓	✓	✓
Zinc Oxide	—	—	✓	2,4 F8 F9	E	ANO	—	—	✓
Stoddard Solvent	—	—	✓	2,4	—	ANO	—	—	✓
Trimethyl Benzene	—	—	✓	4	—	A	—	—	✓
Dichlorodimethylsilane	—	—	—	—	—	—	—	—	—
Methyl Ethyl Ketone	—	✓	✓	2,4,5,6 F8 F9	E	ANO	✓	✓	✓

### CANADA / EUROPEAN UNION:

Please contact Chem-Pak if you need Canadian WHMIS and/or European SNAP compliant information and we will supply you with the appropriate addendum to this MSDS. Submit requests via email to [msds@chem-pak.com](mailto:msds@chem-pak.com), or via fax at 304-262-9643.

## SECTION 16 ● OTHER INFORMATION

**HMIS RATING:** Health: 2 – Flammability: 3 – Reactivity: 0 – Personal Protection: C

**NFPA RATING:** Health: 2 – Flammability: 3 – Reactivity: 0 – Special: -

### DISCLAIMER OF LIABILITY:

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## REVISIONS:

Revision 4 - 05/01/2012 . . . . . Section 14, Packaging Group change.