

MATERIAL SAFETY DATA SHEET

Rust Encapsulator Silver
Part No. 16085ZP Liquid
Revision 3 ~ January 27, 2006

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

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

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

EMERGENCY: Chem-Trec: 800-424-9300 **SUPPLIER 24hr:**

PRODUCT NUMBERS: 16084ZP **SUPPLIER NUMBERS:** 16085ZP
16085ZP 16084ZP

PRODUCT DESCRIPTIONS: Rust Encapsulator Silver

PRODUCT TYPE: Liquid

CAS NUMBER: Mixture

REVISION NUMBER: 3

REVISION DATE: August 31, 2004

PRINT DATE: January 27, 2006

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
Stoddard Solvent	008052-41-3	500 ppm	350 mg/m3	100 ppm	20K mg/m3	10-20
Hydrotreated Light Petroleum Naphtha	064742-47-8	N/E	N/E	N/E	N/E	< 10
Aluminum	007429-90-5	15 mg/m3	10 mg/m3	10 mg/m3	N/E	< 10
Toluene	000108-88-3	200 ppm	100 ppm	50 ppm	500 ppm	< 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
Trimethyl Benzene	025551-13-7	N/E	25 ppm	25 ppm	N/E	< 10

SECTION 3 HAZARD IDENTIFICATION

ROUTES OF EXPOSURE:

Skin Contact	T	Skin Absorption	T	Eye Contact	T	Inhalation	T	Ingestion	T
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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.

OTHER HEALTH HAZARD DATA

CHRONIC EFFECTS: Reports of chronic poisoning describe anemia, decreased blood cell count and bone marrow hypoplasia. Liver and kidney damage may occur. Exposure may affect a developing fetus.

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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), Narcosis (toluene, stoddard solvent), Systemic Toxicity (trimethyl benzene), Physical Irritation (aluminum).

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

CALIFORNIA PROPOSITION 65 WARNING: The product contains a substance known by the State of California to cause birth defects and/or other reproductive harm.

OSHA HAZARD CLASSIFICATIONS

HEALTH HAZARD CLASSIFICATION				PHYSICAL HAZARD CLASSIFICATION					
Irritant	<input checked="" type="checkbox"/>	Sensitizer	<input type="checkbox"/>	Combustible	<input type="checkbox"/>	Explosive	<input type="checkbox"/>	Pyrophoric	<input type="checkbox"/>
Toxic	<input checked="" type="checkbox"/>	Highly Toxic	<input type="checkbox"/>	Flammable	<input checked="" type="checkbox"/>	Oxidizer	<input type="checkbox"/>	Water Reactive	<input type="checkbox"/>
Corrosive	<input type="checkbox"/>	Carcinogenic	<input type="checkbox"/>	Compressed Gas	<input type="checkbox"/>	Organic Peroxide	<input type="checkbox"/>	Unstable	<input type="checkbox"/>

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

AUTOIGNITION TEMPERATURE: N/Av

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 extremely flammable. 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.

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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 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

BOILING POINT:	N/D	MELTING/FREEZING POINT: . . .	N/D
SPECIFIC GRAVITY (H₂O=1): . . .	0.97 g/cm ³	COEFF. OF WATER/OIL DIST.: . .	N/D
VAPOR PRESSURE:	N/D	pH:	Neutral
VAPOR DENSITY:	N/D	EVAPORATION RATE:	Rapid
PHYSICAL STATE:	Liquid Coating	WATER SOLUBILITY:	N/D
PERCENT VOLATILE:	60% Wt (60% Vol) Max	VOLATILITY:	5.06 lbs/gal (0.608 g/cm ³)
PERCENT VOC:	60% Wt (60% Vol) Max	MIR VALUE:	2.866
VISCOSITY:	N/D	ODOR THRESHOLD:	N/D
APPEARANCE:	Silver Coating	ODOR:	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
Stoddard Solvent	N/Av	500 mg/kg, rabbit	N/Av
Hydrotreated Light Petroleum Naphtha	N/Av	N/Av	N/Av
Aluminum	N/Av	N/Av	N/Av
Toluene	636 mg/kg, rat	12124 mg/kg, rabbit	49 mg/m ³ /4hr, rat
Ethyl Benzene	3500 mg/kg, rat	15500 mg/kg, rabbit	N/Av
Zinc Oxide	> 5000 mg/kg, rat	N/Av	N/Av
Trimethyl Benzene	N/Av	N/Av	N/Av

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.

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AQUATIC TOXICITY:

INGREDIENT	FISH LC50	DAPHNIA EC50	ALGAL IC50	BACTERIAL EC50
Xylene	14 mg/l /96 hr	165 mg/kg /24 hr	N/Av	N/Av
Stoddard Solvent	N/Av	N/Av	N/Av	N/Av
Hydrotreated Light Petroleum Naphtha	N/Av	N/Av	N/Av	N/Av
Aluminum	0.55 mg/l /96 hr	136 mg/l /48 hr	0.1 mg/l	N/Av
Toluene	13 mg/l /96 hr	11 mg/l /48 hr	12 mg/l /72 hr	20 mg/l /30 min
Ethyl Benzene	44 mg/l /24 hr	N/Av	N/Av	N/Av
Zinc Oxide	N/Av	N/Av	N/Av	N/Av
Trimethyl Benzene	N/Av	N/Av	N/Av	N/Av

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: I

UN or ID NUMBER: UN1263

ICAO/IATA SHIPPING INFORMATION (International Air)

PROPER SHIPPING NAME: Paint Related Material

HAZARD CLASS: 3

PACKAGING GROUP: I

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	T	U239	100 #	20.4 %	XOV	100 #
Stoddard Solvent	008052-41-3	T	—	—	—	—	—
Hydrotreated Light Petroleum Naphtha	064742-47-8	T	—	—	—	—	—
Aluminum	007429-90-5	T	—	—	6.7 %	—	—
Toluene	000108-88-3	T	U220	1000 #	6.0 %	XOV	1000 #
Ethyl Benzene	000100-41-4	T	U208	1000 #	3.9 %	V	1000 #
Zinc Oxide	001314-13-2	T	—	—	—	—	—
Trimethyl Benzene	025551-13-7	T	—	—	—	—	—

UNITED STATES - STATES

INGREDIENT	CA	DE	FL	MA	PA	MN	NJ	NY	WA
Xylene	—	T	T	2,4 F8 F9	E	ANO	T	T	T
Stoddard Solvent	—	—	T	2,4	—	ANO	—	—	T
Hydrotreated Light Petroleum Naphtha	—	—	—	—	—	—	—	—	—
Aluminum	—	T	T	4,5 F1 F9	E	A	T	—	T
Toluene	D	T	T	2,4,5,6 F7 F8 F9	E	ANO	T	T	T
Ethyl Benzene	—	T	T	2,4,5,6 F7 F8 F9	E	AO	T	T	T
Zinc Oxide	—	—	T	2,4 F8 F9	E	ANO	—	—	T
Trimethyl Benzene	—	—	T	4	—	A	—	—	T

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, or via fax at 304-262-9643.

SECTION 16 OTHER INFORMATION

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

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

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DISCLAIMER OF LIABILITY:

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