

MATERIAL SAFETY DATA SHEET

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Rust Encapsulator Red
Part No. 16040Z Aerosol
Revision 3 ~ January 27, 2006

EMERGENCY OVERVIEW

CONTENTS EXTREMELY FLAMMABLE AND UNDER PRESSURE. STORE BELOW 120°F, OUT OF SUNLIGHT, AND AWAY FROM HEAT SOURCES. DO NOT PUNCTURE OR INCINERATE. 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:	<i>The Easthill Group dba/ The Eastwood Co. 263 Shoemaker Road Pottstown, PA 19464</i>	SUPPLIER:	<i>The Easthill Group 263 Shoemaker Road Pottstown PA 19464 USA</i>
INFORMATION:	<i>USA and Canada: 1-800-345-1178 Outside USA: (610) 323-2200</i>	SUPPLIER PHONE:	<i>610-323-2200</i>
EMERGENCY:	<i>Chem-Trec 1-800-424-9300</i>	SUPPLIER 24hr:	
PRODUCT NUMBER:	<i>16040Z</i>	SUPPLIER NUMBER:	<i>16040Z</i>
PRODUCT DESCRIPTION:	<i>Rust Encapsulator Red</i>		
PRODUCT TYPE:	<i>Aerosol</i>	REVISION NUMBER:	<i>3</i>
CAS NUMBER:	<i>Mixture</i>	REVISION DATE:	<i>August 31, 2004</i>
		PRINT DATE:	<i>January 27, 2006</i>

SECTION 2 HAZARDOUS COMPOSITION

INGREDIENT	CAS NUMBER	OSHA PEL	NIOSH REL	ACGIH PEL	IDLH	% WT
Oxibismethane	000115-10-6	N/E	N/E	N/E	N/E	20-30
Xylene	001330-20-7	100 ppm	100 ppm	100 ppm	900 ppm	10-20
Methyl Ethyl Ketone	000078-93-3	200 ppm	200 ppm	200 ppm	3000 ppm	10-20
Hydrotreated Light Petroleum Naphtha	064742-47-8	N/E	N/E	N/E	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
Stoddard Solvent	008052-41-3	500 ppm	350 mg/m3	100 ppm	20K mg/m3	< 10

SECTION 3 HAZARD IDENTIFICATION

ROUTES OF EXPOSURE:

Skin Contact	<input checked="" type="checkbox"/>	Skin Absorption	<input checked="" type="checkbox"/>	Eye Contact	<input checked="" type="checkbox"/>	Inhalation	<input checked="" type="checkbox"/>	Ingestion	<input type="checkbox"/>
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SIGNS AND SYMPTOMS OF ACUTE EXPOSURE

EYE: Liquid contact may cause pain along with moderate eye irritation.

SKIN: Prolonged or repeated exposure may cause skin irritation. Repeated contact may cause drying or flaking of skin. May cause more severe response if confined to skin.

INGESTION: Due to being an aerosol, the product does not lend itself to ingestion. Should ingestion occur, it 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, and possible chemical pneumonitis, bronchopneumonia, or pulmonary edema.

INHALATION: May cause headache, dizziness.

OTHER HEALTH HAZARD DATA

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

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.

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PRIMARY HAZARDS: Sensory Irritation (xylene, ethyl benzene, methyl ethyl ketone), Narcosis (stoddard solvent, toluene), 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, liver, 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 checked="" 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: N/Av

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT: Propellant < 0°F

FLAMMABLE LIMITS: Lower (LEL): 1.8% @ 25°C Upper (UEL): 9.5% @ 25°C

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 and under pressure. 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

CONTAINMENT PROCEDURES: Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content should be contained as any other solvent spill.

SPILL CLEANUP: Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.

SPECIAL INSTRUCTIONS: Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuously until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned. See Section 13 for disposal.

REPORTING REQUIREMENTS: Spills due to the rupture of a single aerosol can are generally below any regulatory reporting requirements. However, if larger spills somehow result, the reporting requirements of all governing agencies should be observed.

SECTION 7 HANDLING AND STORAGE

HANDLING: Avoid prolonged or repeated skin contact. Avoid breathing of vapors. Do not incinerate (burn) containers. Always replace overcap when not in use.

STORAGE: Storage of individual cans should be done in an area below 120°F, and away from heat sources. Assure can is in a secure place to prevent knocking over and accidental rupture. For storage of pallet quantities, compliance with NFPA 30B (Manufacture and Storage of Aerosol Products) is recommended. This product is classified as a Level 1 Aerosol.

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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, compliance with OSHA standard 29 CFR 1910.134 is necessary within the United States.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:	N/D	MELTING/FREEZING POINT: . . .	N/D
SPECIFIC GRAVITY (H₂O=1): . . .	0.91 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 Under Pressure	WATER SOLUBILITY:	N/D
PERCENT VOLATILE:	71% Wt (79% Vol) Max	VOLATILITY:	5.24 lbs/gal (0.629 g/cc)
PERCENT VOC:	71% Wt (79% Vol) Max	MIR VALUE:	2.354
VISCOSITY:	N/D	ODOR THRESHOLD:	N/D
APPEARANCE:	Dull Red Coating	ODOR:	Paint-Like

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

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

MATERIAL INCOMPATIBILITY: Strong oxidizers, amines, ammonia, caustics, isocyanates, pyridines, alkaline metals, alkaline earth metals, powdered metal salts.

DECOMPOSITION PRODUCTS: Oxides of carbon

HAZARD POLYMERIZATION: Not expected to occur

SECTION 11 TOXICOLOGICAL INFORMATION

INGREDIENT	ORAL LD50	DERMAL LD50	INHALATION LC50
Oxibismethane	N/Av	N/Av	164 mg/l /4hr, rat
Xylene	2840 mg/kg, rat	4500 mg/kg, rabbit	5000 ppm /4hr, rat
Methyl Ethyl Ketone	>2600 mg/kg, mouse	>8000 mg/kg, rabbit	20 mg/l /4 hr, rat
Hydrotreated Light Petroleum Naphtha	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. No ecological problems are to be expected when handled and used with care and as directed.

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

AQUATIC TOXICITY:

INGREDIENT	FISH LC50	DAPHNIA EC50	ALGAL IC50	BACTERIAL EC50
Oxibismethane	N/Av	N/Av	N/Av	N/Av
Xylene	14 mg/l /96 hr	165 mg/kg /24 hr	N/Av	N/Av
Methyl Ethyl Ketone	3220 mg/l /96 hr	5061 mg/l /48 hr	>4300 mg/l /7 day	1150 mg/l /16 hr
Hydrotreated Light Petroleum Naphtha	N/Av	N/Av	N/Av	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

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INGREDIENT	FISH LC50	DAPHNIA EC50	ALGAL IC50	BACTERIAL EC50
Zinc Oxide	N/Av	N/Av	N/Av	N/Av
Trimethyl Benzene	N/Av	N/Av	N/Av	N/Av

SECTION 13 DISPOSAL CONSIDERATIONS

Hazard characteristic and regulatory waste stream classification can change with product use and location. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste material must be disposed of in compliance with the respective national, federal, state, and/or local regulations.

In the United States, an aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6)), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are to be disposed of (not recycled) it must be managed under all applicable RCRA and state regulations.

SECTION 14 TRANSPORTATION INFORMATION

DOT SHIPPING INFORMATION (United States)

PROPER SHIPPING NAME: . Consumer Commodity
HAZARD CLASS: ORM-D
PACKAGING GROUP: None
UN or ID NUMBER: None

ICAO/IATA SHIPPING INFORMATION (International Air)

PROPER SHIPPING NAME: Consumer Commodity
HAZARD CLASS: 9
PACKAGING GROUP: None
UN or ID NUMBER: ID8000

SECTION 15 REGULATORY INFORMATION

UNITED STATES - FEDERAL:

INGREDIENT	CAS NO	TSCA	RCRA	CERCLA	SARA 313	CAA	CWA
Oxibismethane	000115-10-6	T	—	—	—	—	—
Xylene	001330-20-7	T	U239	100 #	16.3 %	XOV	100 #
Methyl Ethyl Ketone	000078-93-3	T	U159	5000 #	11.5 %	—	—
Hydrotreated Light Petroleum Naphtha	064742-47-8	T	—	—	—	—	—
Toluene	000108-88-3	T	U220	1000 #	4.0 %	XOV	1000 #
Ethyl Benzene	000100-41-4	T	U208	1000 #	2.2 %	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
Oxibismethane	—	—	T	5,6	—	I	T	—	—
Xylene	—	T	T	2,4 F8 F9	E	ANO	T	T	T
Methyl Ethyl Ketone	—	T	T	2,4,5,6 F8 F9	E	ANO	T	T	T
Hydrotreated Light Petroleum Naphtha	—	—	—	—	—	—	—	—	—
Toluene	R	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: 2 – Flammability: 4 – Reactivity: 0 – Personal Protection: B

NFPA RATING: Health: 2 – Flammability: 4 – Reactivity: 0 – Special: -

DISCLAIMER OF LIABILITY:

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