

# MATERIAL SAFETY DATA SHEET

Rust Encapsulator Dk Gray

Part No. 12448Z Aerosol  
Revision 1 ♦ March 13, 2009

CONFORMS TO THE GLOBALLY HARMONIZED SYSTEM (GHS), ANSI Z400.1-2004, EU DIRECTIVE 91/155/EEC &amp; 99/45/EC, OSHA 29 CFR 1910.1200, NOHSC:2011(2003), AND CANADIAN CPR

## Section 1

## ● PRODUCT AND COMPANY IDENTIFICATION ●

## Section 1

Product Numbers 12448Z  
 Product Name 12448Z Rust Encapsulator Dark Gray  
 Synonyms None  
 Products Uses Automobile Rust Encapsulator  
 Revision Number 1  
 Revision Date April 24, 2009  
 Print Date April 24, 2009

24 hr Emergency  
Phone Number800-424-9300  
Chem-Trec

MANUFACTURED FOR		DISTRIBUTOR INFORMATION	
Company Name	The Easthill Group dba/ The Eastwood Company	Company Name	The Easthill Group
Address	263 Shoemaker Road Pottstown, PA 19464	Address	263 Shoemaker Road Pottstown PA 19464
Phone Number	USA & Canada 800-345-1178 Outside USA 610-323-2200	Phone Number	610-705-5422
		Fax Number	610-323-6268

## Section 2

## ● HAZARDS IDENTIFICATION ●

## Section 2

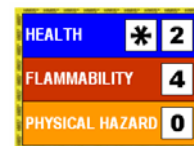
EMERGENCY  
OVERVIEW

**DANGER! 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. EYE AND SKIN IRRITANT. HARMFUL OR FATAL IF SWALLOWED. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

OSHA Classification This product is a "hazardous chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

European Classification Repr. Cat. 3; Carc. Cat. 2  
 F+, Xn, Xi, N  
 R 12-20/21-36/38-50/53-65-66-67  
 S 2-9-16-22-23-24/25-26-29-33-60-61-62

WHMIS Classification A, B5, D2A, D2B



HEALTH HAZARDS		PHYSICAL HAZARDS			
Irritant <input checked="" type="checkbox"/>	Sensitizer <input type="checkbox"/>	Combustible <input type="checkbox"/>	Explosive <input type="checkbox"/>	Pyrophoric <input type="checkbox"/>	
Toxic <input 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 checked="" type="checkbox"/>	Compressed Gas <input checked="" type="checkbox"/>	Organic Peroxide <input type="checkbox"/>	Unstable <input type="checkbox"/>	

♦ See Section 11

## LABELING REQUIREMENTS

CANADA	UNITED STATES	EUROPE & AUSTRALIA	GHS
	DANGER CONTENTS EXTREMELY FLAMMABLE AND UNDER PRESSURE		

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## POTENTIAL HEALTH EFFECTS AND SIGNS / SYMPTOMS OF EXPOSURE

Eye Contact	<i>Liquid contact may cause pain along with moderate eye irritation.</i>
Skin Contact	<i>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.</i>
Ingestion	<i>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.</i>
Inhalation	<i>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 dyspnea are also possible.</i>
Effects of Chronic Exposure	<i>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 concentrating and inhaling this product may be harmful or fatal.</i>
Medical Conditions Aggravated	<i>Reports of chronic Toluene effects include anemia, decreased blood cell count and bone marrow hypoplasia. Liver and kidney damage may occur. Exposure may affect a developing fetus.</i>
Primary Hazards	<i>May aggravate personnel with pre-existing disorders associated with any of the Target Organs.</i>
Target Organs	<i>Sensory Irritation (Xylene, Methyl Ethyl Ketone, Acetone, Ethyl Benzene), Narcosis (Toluene, Stoddard Solvent), Respiratory Effects (Quartz)</i>
Routes of Exposure	<i>Eyes, Skin, Respiratory System, Central Nervous System, Liver, Kidneys, Cardiovascular System</i>
Potential Environmental Effects	<i>Skin contact, skin absorption, eye contact, inhalation</i>
	<i>See Section 12 for environmental effects</i>

## Section 3

## ● COMPOSITION / INFORMATION ON INGREDIENTS ●

## Section 3

ID	INGREDIENT	CAS NUMBER	EINECS	EU CLASSIFICATION	% WT
1	Propane	000074-98-6	200-827-9	F+; 12	10 - 30
2	Xylene	001330-20-7	215-535-7	Xn, Xi; 10-20/21-38	10 - 30
3	Methyl Ethyl Ketone	000078-93-3	201-159-0	F, Xi; 11-36-66-67	10 - 30
4	Toluene	000108-88-3	203-625-9	F, Xn, Xi; 11-20	7 - 13
5	Acetone	000067-64-1	200-662-2	F, Xi; 11-36-66-67	5 - 10
6	Hydrotreated Light Petroleum Naphtha	064742-47-8	265-149-8	Xn; 65	1 - 5
7	Aluminum	007429-90-5	231-072-3	F; 10-15	1 - 5
8	Magnesium Silicate Hydrate	014807-96-6	238-877-9	—	1 - 5
9	Ethyl Benzene	000100-41-4	202-849-4	F, Xn; 11-20	1 - 5
10	Stoddard Solvent	008052-41-3	232-489-3	T, Xn; 45-65	1 - 5
11	Quaternary Ammonium Compound	068911-87-5	272-790-7	—	1 - 5
12	Zinc Oxide	001314-13-2	215-222-5	N; 50/53	0.5 - 1.5
13	Crystalline Silica (Quartz)	014808-60-7	213-878-4	—	< 0.1
14	Carbon Black	001333-86-4	215-609-9	—	< 0.1

Risk Phrases	See Section 15 for risk phrase text
LD50 and LC50 Information	See Section 11 for toxicological information
Occupational Exposure Limits	See Section 8 for OELs

## Section 4

## ● FIRST AID MEASURES ●

## Section 4

Ingestion	<i>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 if victim is rapidly losing consciousness, unconscious, or convulsing.</i>
Eye Contact	<i>Immediately flush with clear water for at least 15 minutes, including under the eyelids. Consult a doctor.</i>

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Skin Contact	<i>Remove with soap and water, rinsing and repeating for 15 minutes. Use skin cream to counter any resulting dryness. Consult a physician if irritation continues. If large skin area is affected, remove contaminated clothing.</i>
Inhalation	<i>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.</i>
Notes to Physician	<i>Treat symptomatically.</i>
Antidotes	<i>No specific antidote.</i>

### Section 5

### ● FIRE FIGHTING MEASURES ●

### Section 5

Flash Point, Liquid	<i>&gt; 1 °F (-17.0 °C)</i>	Flash Point, Propellant	<i>&gt; -156 °F (-104.4 °C)</i>
Explosive Limits	<i>1.00% to 13.00%</i>	Autoignition Temperature, Liquid	<i>759 °F (404 °C)</i>
Conditions of Flammability	<i>Heat, sparks, flame, red hot metal</i>		
Extinguishing Media	<i>Water, CO2, dry chemical, or universal aqueous film forming foam</i>		
Unsuitable Extinguishing Media	<i>Water jet</i>		
Hazardous Combustion Products	<i>Oxides of carbon (CO, CO2), smoke, and vapors</i>		
Sensitivity to Mechanical Impact	<i>Mechanical impact may cause aerosol can to rupture, resulting in a rapid release of its contents. In the presence of an ignition source the liquid and/or vapor content may be ignited.</i>		
Sensitivity to Static Discharge	<i>Vapor within the flammable limits may be ignited by a static discharge of sufficient energy.</i>		
Special Equipment and Precautions	<i>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.</i>		
Special Explosion Hazards	<i>Contents extremely flammable and under pressure</i>		
Autoreactivity / Oxidizing Properties	<i>Not available</i>		

### Section 6

### ● ACCIDENTAL RELEASE MEASURES ●

### Section 6

Personal Precautions	<i>Use personal protection recommended in Section 8. Isolate hazard area and deny entry to unnecessary and unprotected personnel.</i>
Environmental Precautions	<i>Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.</i>
Containment Procedures	<i>Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content may be contained with oil/solvent absorbent pads, socks, and/or absorbents. DO NOT use combustible material such as sawdust.</i>
Cleanup Procedures	<i>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.</i>
Other Information	<i>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 continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned. See Section 13 for disposal.</i>
Prohibited Materials	<i>Combustible absorbent material such as sawdust, use of equipment that may cause sparking.</i>
Reporting Requirements	<i>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.</i>

### Section 7

### ● HANDLING AND STORAGE ●

### Section 7

Storage Requirements and Conditions	<i>Storage of individual cans should be done in an area below 120 °F (55 °C), and away from heat sources. Ensure 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 3 Aerosol.</i>
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### Precautions for Safe Handling and Use

**KEEP OUT OF THE REACH OF CHILDREN.** Avoid prolonged or repeated skin contact. Avoid breathing of vapors. Do not incinerate (burn) containers. Always replace overcap when not in use. **Do not smoke** while handling or using this product. Avoid use around open flames or other sources of ignition. Exposure to heat or prolonged exposure to sun may cause can to burst. Use only with adequate ventilation, opening doors or windows to achieve cross-ventilation. Wash hands after use.

### Special Packaging Materials

Not applicable.

## Section 8

## ● EXPOSURE CONTROLS / PERSONAL PROTECTION ●

## Section 8

### Occupational Exposure Limits

ID	UNITED STATES OSHA PEL	UNITED STATES NIOSH REL	UNITED STATES NIOSH IDLH	UNITED STATES ACGIH TLV	AUSTRALIA TWA	GERMANY MAK	JAPAN OEL
1	1000 ppm	1000 ppm	2100 ppm	1000 ppm	N/E	N/E	N/E
2	100 ppm	100 ppm	900 ppm	100 ppm	N/E	100 ppm	50 ppm
3	200 ppm	200 ppm	3000 ppm	200 ppm	150 ppm	200 ppm	200 ppm
4	200 ppm	100 ppm	500 ppm	50 ppm	50 ppm	50 ppm	50 ppm
5	1000 ppm	250 ppm	750 ppm	500 ppm	500 ppm	1200 mg/m3	200 ppm
6	5 mg/m3	N/E	2500 mg/m3	5 mg/m3	10 mg/m3	N/E	3 mg/m3
7	15 mg/m3	10 mg/m3	N/E	10 mg/m3	2 mg/m3	N/E	2 mg/m3
8	20 mppcf	2 mg/m3	1000 mg/m3	2 mg/m3	2.5 mg/m3	N/E	2 mg/m3
9	100 ppm	100 ppm	800 ppm	100 ppm	100 ppm	100 ppm	50 ppm
10	500 ppm	350 mg/m3	20000 mg/m3	100 ppm	790 mg/m3	N/E	N/E
11	15 mg/m3	6 mg/m3	3000 mg/m3	10 mg/m3	10 mg/m3	N/E	2 mg/m3
12	5 mg/m3	5 mg/m3	500 mg/m3	2 mg/m3	10 mg/m3	N/E	N/E
13	5 mppcf	0.05 mg/m3	50 mg/m3	0.05 mg/m3	0.1 mg/m3	N/E	0.03 mg/m3
14	3.5 mg/m3	3.5 mg/m3	1750 mg/m3	3.5 mg/m3	3 mg/m3	N/E	1 mg/m3

ID	CANADA ALBERTA OEL	CANADA BC TWA	CANADA ONTARIO TWA EV	CANADA QUEBEC TWA	MEXICO MPEL-PTA	UNITED KINGDOM WEL	UNITED STATES AIHA WEEL
1	N/E	1000 ppm	1000 ppm	N/E	N/E	N/E	N/E
2	100 ppm	100 ppm	100 ppm	100 ppm	100 ppm	50 ppm	N/E
3	200 ppm	50 ppm	200 ppm	200 ppm	200 ppm	200 ppm	N/E
4	100 ppm	20 ppm	50 ppm	100 ppm	50 ppm	50 ppm	N/E
5	750 ppm	250 ppm	500 ppm	750 ppm	1000 ppm	500 ppm	N/E
6	5 mg/m3	1 mg/m3	5 mg/m3	5 mg/m3	N/E	N/E	N/E
7	10 mg/m3	10 mg/m3	10 mg/m3	10 mg/m3	10 mg/m3	10 mg/m3	N/E
8	2 mg/m3	2 mg/m3	2 mg/m3	2 mg/m3	2 mg/m3	1 mg/m3	N/E
9	100 ppm	100 ppm	100 ppm	100 ppm	100 ppm	100 ppm	N/E
10	100 ppm	290 mg/m3	525 mg/m3	100 ppm	100 ppm	N/E	N/E
11	2 mg/m3	4 mg/m3	10 mg/m3	2 mg/m3	2 mg/m3	2.4 mg/m3	N/E
12	5 mg/m3	2 mg/m3	2 mg/m3	5 mg/m3	5 mg/m3	N/E	N/E
13	0.1 mg/m3	0.025 mg/m3	N/E	0.1 mg/m3	0.1 mg/m3	0.1 mg/m3	N/E
14	3.5 mg/m3	3.5 mg/m3	3.5 mg/m3	3.5 mg/m3	3.5 mg/m3	3.5 mg/m3	N/E

### Engineering Measures

Use only with adequate ventilation. 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 OEL from the table above.

### Biological Exposure Indices

ACGIH BEIs: Acetone 50 mg/L in urine (end of shift); Ethyl Benzene 0.7 g/g creatinine (end of shift at end of workweek); Methyl Ethyl Ketone 2 mg/L in urine (end of shift); Toluene 0.5 mg/L o-Cresol in urine (end of shift); Xylene 1.5 g/g creatinine (end of shift).

### General Hygiene Considerations

Avoid breathing vapors and contact with the skin and eyes. Always replace overcap when not in use. Keep out the reach of children. Wash hands after use.

### Thermal Hazards

This product does not present a thermal hazard.

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### PERSONAL PROTECTIVE EQUIPMENT



Respiratory Protection	<i>An approved respirator with an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits. If respirators are needed, in the United States compliance with OSHA standard 29 CFR 1910.134 is necessary.</i>
Skin Protection	<i>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.</i>
Eye/Face Protection	<i>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.</i>
Other Protective Equipment	<i>Safety showers and eye-wash stations should be available in the workplace near where the material will be used.</i>

### Section 9

### ● PHYSICAL AND CHEMICAL PROPERTIES ●

### Section 9

Boiling Point	> 133 °F (56.1 °C)	Melting / Freezing Point	> -140 °F (-95.3 °C)
Flash Point, Liquid	> 1 °F (-17.0 °C)	Flash Point, Propellant	-156 F (-104.4)
Explosive Limits	1.00% to 13.00%	Autoignition Temperature, Liquid	759 °F (404.8 °C)
Flammability	<i>Extremely Flammable Aerosol</i>	Density (H <sub>2</sub> O = 1)	0.827 g/cc
Molecular Weight	<i>Not Available</i>	Weight	6.906 lbs/gal
Vapor Pressure	108 psig	pH	<i>Not Available</i>
Vapor Density	3.70 g/cc Maximum	Evaporation Rate	<i>Not Available</i>
Physical State	<i>Liquid Under Pressure</i>	Partition Coefficient	<i>Not Available</i>
Viscosity	<i>Not Available</i>	Refractive Index	<i>Not Available</i>
Odor Threshold	<i>Not Available</i>	Heat of Combustion	<i>Not Available</i>
Odor	<i>Paint-like</i>	Water Solubility	<i>Not Available</i>
Appearance / Color	<i>Dark grey coating</i>	Decomposition Temperature	<i>Not Available</i>
Percent Volatile	74% Wt (82% Vol) Max	VOC Content	4.649 lbs/gal (557.070 g/L)
Percent VOC	68% Wt (75% Vol) Max	HAP Content	0.977 lbs/gal (117.043 g/L)
Solids Content	2.2% Wt (1.5% Vol) Max	Maximum Incremental Reactivity	2.192 g O <sub>3</sub> /g

### Section 10

### ● STABILITY AND REACTIVITY ●

### Section 10

Stability	<i>Stable</i>
Physical Hazards	<i>Contents under pressure, Flammable</i>
Conditions to Avoid	<i>Not Available</i>
Hazard Polymerization	<i>Not expected to occur</i>
Material Incompatibility	<i>Strong oxidizing agents, amines, ammonia, caustics, pyridines, halogenated hydrocarbons, acetylene, nitric acid, dichlorohydrantion, aluminum, hydrogen peroxide, strong reducing agents, hexachloromelamine, trichloromelamine, halogenated solvent/alkali mixtures, potassium tert-butoxide, bases, sulfur dichloride, acids, isocyanates, nitrogen tetroxide, silver perchlorate, tetranitromethane, uranium hexafluoride</i>
Conditions of Reactivity	<i>Heat, sparks, flame, red hot metal</i>



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Decomposition Products

Oxides of carbon

## Section 11

## ● TOXICOLOGICAL INFORMATION ●

## Section 11

Irritancy of Product

The following ingredients are eye irritants: Methyl Ethyl Ketone, Acetone. The following ingredients are skin irritants: Xylene, Toluene, Ethyl Benzene, Stoddard Solvent. The following ingredients are respiratory irritants: Quartz.

Sensitization to Product

None of the ingredients cause sensitization.

Carcinogen Data

Ethylbenzene is listed with IARC as Class 2B (possible human carcinogen) and with ACGIH as A3 (confirmed animal carcinogen with unknown relevance to humans). Ethylbenzene is also listed with the State of California as a carcinogen.

Carbon Black is listed with IARC as Class 2B (possible human carcinogen) and is listed with ACGIH as A4 (not classifiable as a human carcinogen). Carbon Black is also listed with the States of California and Minnesota as a known carcinogen.

Crystalline silica (quartz) is listed with OSHA as a Select Carcinogen and with ACGIH in category A2, "Suspected Human Carcinogen". It is also listed with NTP as Group 2, "Reasonably Anticipated to be a Human Carcinogen", and IARC as Group 1, "Known Human Carcinogen". Quartz is also listed as carcinogenic with the States of California and Massachusetts.

Reproductive Toxicity

The following ingredients are considered reproductive toxicants: Toluene

Teratogenicity

The following ingredients are considered teratogens: Xylene, Toluene

Mutagenicity

The following ingredients are considered mutagens: Carbon Black

Synergistic Products

Exposure to solvents, such as benzene, xylene, toluene and ethanol slows the rate of clearance of from the body, thus enhancing the toxic effects of ingredients toluene and xylene.

LD<sub>50</sub> and LC<sub>50</sub> Information

ID	ORAL LD50	DERMAL LD50	INHALATION LC50
1	Not Available	Not Available	57.42% v/v, mice
2	2840 mg/kg, rat	4500 mg/kg, rabbit	6300 mg/L /4 hr, rat
3	> 2600 mg/kg, mouse	> 8000 mg/kg, rat	20 mg/L /4 hr, rat
4	636 mg/kg, rat	> 12000 mg/kg, rabbit	49 mg/m3 /4 hr, rat
5	5800 mg/kg, rat	20000 mg/kg, rabbit	76 mg/m3 /4 hr, rat
6	> 5000 mg/kg, rat	> 2000 mg/kg, rabbit	Not Available
7	Not Available	Not Available	Not Available
8	Not Available	Not Available	Not Available
9	3500 mg/kg, rat	15500 mg/kg, rabbit	Not Available
10	Not Available	500 mg/kg, rabbit	Not Available
11	Not Available	Not Available	Not Available
12	> 5000 mg/kg, rat	Not Available	Not Available
13	Not Available	Not Available	Not Available
14	> 8000 mg/kg, rat	> 3000 mg/kg, rabbit	Not Available

## Section 12

## ● ECOLOGICAL INFORMATION ●

## Section 12

Mobility

Not Available

Persistence

Not Available

Degradability

Not Available

Bioaccumulation

Not Available

Other Ecologic Data

Do not allow to enter waters, waste water, or soil. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Effects on the Ozone Layer

This product does not contain any ozone depleting ingredients.

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## Ecotoxicity

ID	FISH	INVERTEBRATES	AQUATIC PLANTS	MICROORGANISMS
1	Not Available	Not Available	Not Available	Not Available
2	LC50: 26.7 mg/L /96 hr	LC50: 14 mg/L /24 hr	Not Available	Not Available
3	LC50: 5600 mg/L /96 hr	EC50: > 520 mg/L /48 hr	EC3: > 4300 mg/L /7 days	EC5: > 2982 mg/L /48 hr
4	LC50: 13 mg/L /96 hr	EC50: 11.5 mg/L /48 hr	EC50: > 250 mg/L /24 hr	EC0: 29 mg/L /16 hr
5	LC50: 13 g/L /48 hr	LC50: 8800 mg/L /48 hr	EC50: > 20 g/L /14 days	EC50: > 14 g/L /15 min
6	LC50: > 1000 mg/L /96 hr	Not Available	Not Available	Not Available
7	NOEC: > 100 mg/L /48 hr	NOEC: > 100 mg/L /48 hr	NOEC: > 100 mg/L /72 hr	Not Available
8	LC50: > 100 mg/L /24 hr	Not Available	Not Available	Not Available
9	LC50: 12.1 mg/L /96 hr	LC50: 77 mg/L /24 hr	EC50: 63 mg/L /3 hr	EC50: 160 mg/L /96 hr
10	Not Available	Not Available	Not Available	Not Available
11	Not Available	Not Available	Not Available	Not Available
12	Not Available	Not Available	Not Available	Not Available
13	Not Available	Not Available	Not Available	Not Available
14	NOEC: 1000 mg/L /96 hr	EC50: > 5600 mg/L /24 hr	Not Available	EC0: > 100 mg/L /3 hr

## Section 13

## ● DISPOSAL CONSIDERATIONS ●

## Section 13

## Waste Disposal

Characteristics and waste stream classification can change with product use and location. 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 must be disposed of in compliance with the respective national, federal, state, and/or local regulations.

## Waste Disposal of Packaging

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.

## Landfill Precautions

Not Available







## Incineration Precautions

\*\* DO NOT INCINERATE \*\* CONTENTS UNDER PRESSURE \*\*

## Section 14

## ● TRANSPORTATION INFORMATION ●

## Section 14

<b>DOT SHIPPING INFORMATION (United States)</b>  <b>PROPER SHIPPING NAME:</b> ... Consumer Commodity <b>HAZARD CLASS:</b> ... ORM-D <b>PACKING GROUP:</b> ... - <b>UN or ID NUMBER:</b> ... - <b>NAERG GUIDE NUMBER:</b> ... 171	<b>ICAO/IATA SHIPPING INFORMATION (International Air)</b>  <b>PROPER SHIPPING NAME:</b> ... Consumer Commodity <b>HAZARD CLASS:</b> ... 9 <b>PACKAGING GROUP:</b> ... - <b>UN or ID NUMBER:</b> ... ID8000
<b>TDG SHIPPING INFORMATION (Canada)</b>  <b>PROPER SHIPPING NAME:</b> ... Aerosols, Limited Quantity <b>HAZARD CLASS:</b> ... 2.1 <b>PACKAGING GROUP:</b> ... - <b>UN or ID NUMBER:</b> ... UN1950	<b>ADG SHIPPING INFORMATION (Australia)</b> <b>PROPER SHIPPING NAME:</b> ... Aerosols, Limited Quantity <b>HAZARD CLASS:</b> ... 2.1 <b>PACKAGING GROUP:</b> ... - <b>UN or ID NUMBER:</b> ... UN1950 <b>HAZCHEM CODE:</b> ... -
<b>IMDG SHIPPING INFORMATION (International Ocean)</b>  <b>PROPER SHIPPING NAME:</b> ... Aerosols, Limited Quantity <b>CLASS:</b> ... 2.1 <b>PACKAGING GROUP:</b> ... - <b>SUBSIDIARY RISK(S):</b> ... - <b>UN or ID NUMBER:</b> ... UN1950 <b>PACKING INSTRUCTIONS:</b> ... P003 <b>EmS NO.:</b> ... F-D, S-U <b>STOWAGE:</b> ... Category A <b>MFAG NO.:</b> ... 620	<b>ADR SHIPPING INFORMATION (European Union)</b>  <b>PROPER SHIPPING NAME:</b> ... Aerosols, Limited Quantity <b>ADR CLASS:</b> ... 2 <b>PACKAGING GROUP:</b> ... - <b>UN or ID NUMBER:</b> ... UN1950 <b>CLASSIFICATION CODE:</b> ... 5F <b>HAZARD IDENTIFICATION NO:</b> ... -
<b>GLOBALLY HARMONIZED SYSTEM (GHS)</b>  <b>PROPER SHIPPING NAME:</b> ... Aerosols, Limited Quantity <b>HAZARD CLASS:</b> ... 2 <b>UN PACKAGING GROUP:</b> ... - <b>UN or ID NUMBER:</b> ... UN1950	<b>NMFC DESCRIPTION (United States)</b> <b>ITEM DESCRIPTION:</b> Paint Related Material <b>ITEM NUMBER:</b> 149980 Sub 2 <b>CLASS:</b> 55

# MATERIAL SAFETY DATA SHEET

Rust Encapsulator Dk Gray

Part No. 12448Z Aerosol  
Revision 1 ♦ March 13, 2009

CONFORMS TO THE GLOBALLY HARMONIZED SYSTEM (GHS), ANSI Z400.1-2004, EU DIRECTIVE 91/155/EEC &amp; 99/45/EC, OSHA 29 CFR 1910.1200, NOHSC:2011(2003), AND CANADIAN CPR

## Section 15

## ● REGULATORY INFORMATION ●

## Section 15

## United States - Federal

ID	TSCA INVENTORY	SARA 302 EHS	RCRA	CERCLA	SARA 313	FIRE	REACTIVITY	SARA 311/312 ACUTE	CHRONIC	PRESSURE	CLEAN AIR ACT	CLEAN WATER ACT
1	✓	—	—	—	—	✓	—	✓	—	✓	—	—
2	✓	—	U239	100#	16 %	✓	—	✓	✓	—	HAP	100#
3	✓	—	U159	5000#	14 %	✓	—	✓	✓	—	—	—
4	✓	—	U220	1000#	10 %	✓	—	✓	✓	—	HAP	1000#
5	✓	—	U002	5000#	—	✓	—	✓	—	—	—	—
6	✓	—	—	—	—	—	—	✓	✓	—	—	—
7	✓	—	—	—	3 %	—	—	—	—	—	—	—
8	✓	—	—	—	—	—	—	—	—	—	—	—
9	✓	—	U208	1000#	3 %	✓	—	✓	✓	—	HAP	1000#
10	✓	—	—	—	—	✓	—	✓	✓	—	—	—
11	✓	—	—	—	—	—	—	✓	—	—	—	—
12	✓	—	—	—	—	—	—	—	✓	—	—	—
13	✓	—	—	—	—	—	—	—	✓	—	—	—
14	✓	—	—	—	—	—	—	✓	✓	—	—	—

## United States - States

ID	CALIFORNIA	DELAWARE	FLORIDA	MASSACHUSETTS	PENNSYLVANIA	MINNESOTA	NEW JERSEY	NEW YORK	WASHINGTON
1	—	—	—	—	—	—	—	—	—
2	—	✓	✓	2,4 F8 F9	E	ANO	✓	✓	✓
3	—	✓	✓	2,4,5,6 F8 F9	E	ANO	✓	✓	✓
4	D	✓	✓	2,4,5,6 F7 F8 F9	E	ANO	✓	✓	✓
5	—	✓	✓	2,4,5,6 F8 F9	E	ANO	✓	✓	✓
6	—	—	—	—	—	—	—	—	—
7	—	✓	✓	4,5 F1 F9	E	A	✓	—	✓
8	—	—	✓	2,4 F5	—	AO	—	—	✓
9	C	✓	✓	2,4,5,6 F7 F8 F9	E	AO	✓	✓	✓
10	—	—	✓	2,4	—	ANO	—	—	✓
11	—	—	—	—	—	—	—	—	—
12	—	—	✓	2,4 F8 F9	E	ANO	—	—	✓
13	C	—	—	1,2,4 *E*C* F5	—	A	—	—	✓
14	C	—	—	2,4 F5	—	ANOR-C	—	—	✓

## Canada

ID	WHMIS CATEGORIES									CHEMICAL LISTS			
	A	B	C	D1A	D1B	D2A	D2B	D3	E	DSL	NDSL	NPRI	CWC
1	✓	B1	—	—	—	—	—	—	—	✓	—	—	—
2	—	B2	—	—	—	✓	✓	—	—	✓	—	1A, 5	—
3	—	B2	—	—	—	✓	✓	—	—	✓	—	1A, 5	—
4	—	B2	—	—	—	✓	—	—	—	✓	—	1A, 5	—
5	—	B2	—	—	—	—	✓	—	—	✓	—	—	—
6	—	—	—	—	—	—	—	—	—	✓	—	5	—
7	—	B6	—	—	—	—	—	—	—	✓	—	1A	—
8	—	—	—	—	—	✓	—	—	—	✓	—	—	—
9	—	B2	—	—	—	✓	✓	—	—	✓	—	1A	—
10	—	B3	—	—	—	✓	—	—	—	✓	—	5	—
11	—	—	—	—	—	—	—	—	—	✓	—	—	—
12	—	—	—	—	—	—	—	—	—	✓	—	—	—
13	—	—	—	—	—	✓	—	—	—	✓	—	—	—
14	—	—	—	—	—	✓	—	—	—	✓	—	—	—

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.**



# MATERIAL SAFETY DATA SHEET

Rust Encapsulator Dk Gray

Part No. 12448Z Aerosol  
Revision 1 ♦ March 13, 2009

CONFORMS TO THE GLOBALLY HARMONIZED SYSTEM (GHS), ANSI Z400.1-2004, EU DIRECTIVE 91/155/EEC &amp; 99/45/EC, OSHA 29 CFR 1910.1200, NOHSC:2011(2003), AND CANADIAN CPR

## European Union

CODE	RISK PHRASES
R 12	Extremely Flammable
R 20/21	Harmful by inhalation and in contact with skin
R 36/38	Irritating to eyes and skin
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse health effects in the aquatic environment
R 65	Harmful: may cause lung damage if swallowed
R 66	Repeated exposure may cause skin dryness or cracking
R 67	Vapours may cause drowsiness and dizziness

CODE	SAFETY PHRASES
S 2	Keep out of the reach of children
S 9	Keep container in a well ventilated place
S 16	Keep away from sources of ignition – No smoking
S 22	Do not breath dust
S 23	Do not breath vapours
S 24/25	Avoid contact with skin and eyes
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S 29	Do not empty into drains
S 33	Take precautionary measure against static discharge
S 60	This material and its container must be disposed of as hazardous waste
S 61	Avoid release to the environment
S 62	If swallowed, do not induce vomiting: seek medical advice immediately

## RoHS Compliance



This product is RoHS compliant according to the definitions and restrictions given by Directive 2002/95/EC and The Council of January 27, 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

## Australia

## Poisons Schedule Number

None of the ingredients are present at or above a concentration necessary for allocation of a Poisons Schedule Number.

## Chemical Inventory Status

All of the ingredients are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt.

## Section 16

## ● OTHER INFORMATION ●

## Section 16

## Disclaimer of Liability

The information contained herein is based upon data provided to us by our suppliers, and reflects our best judgement. However, no warranty of merchantability, fitness for any use, or any other warranty or guarantee is expressed or implied regarding the accuracy of such data, or the results to be obtained from use thereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. This information is furnished upon the condition that the persons receiving it shall make their own determinations of the suitability of the material for any particular use. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.

## Revision History

Revision 1, 04/24/2009, Original