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Engine Enamel
Part No. EE

Revision 1 & October 12, 2010

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

### Section 1 ● PRODUCT AND COMPANY IDENTIFICATION ● Section 1

Product Numbers EE

Product Name Engine Enamel - Colors Vary

Synonyms None
Products Uses Paint
Revision Number 1

Revision Date October 12, 2010
Print Date October 12, 2010

24 hr Emergency Phone Number

800-424-9300

(Chemtrec)

MANUFACTURER INFORMATION		DISTRIBUTOR INFORMATION	
Company Name	POR-15, Inc.	Company Name	
Address	PO Box 1235	Address	
	Morristown NJ 07962		
Phone Number	973-887-1999	Phone Number	
Fax Number	973-887-8007	Fax Number	

### Section 2 ● HAZARDS IDENTIFICATION ● Section 2

### **EMERGENCY OVERVIEW**

**CAUTION!** CONTENTS **COMBUSTIBLE**. AVOID CONTACT WITH SKIN AND EYES. VAPOR HARMFUL. IRRITATING TO THE SKIN. 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 Carc. Cat. 2

Xn, N

R 45-50/53-65

S 2-7/8-23-24-43-46-60-61-62

WHMIS Classification B3, D2A





HEALTH HAZARDS			PHYSICAL HAZARDS					
Irritant	<b>✓</b>	Sensitizer		Combustible <a> </a>	Explosive		Pyrophoric	
Toxic		Highly Toxic		Flammable	Oxidizer		Water Reactive	
Corrosive		Carcinogenic	♦	Compressed Gas	Organic Peroxide		Unstable	

☼ See Section 11

LABELING REQUIREMENTS					
CANADA	UNITED STATES	EUROPE & AUSTRALIA	GHS		
Ţ	CAUTION CONTENTS COMBUSTIBLE	* *	♦		



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#### POTENTIAL HEALTH EFFECTS AND SIGNS / SYMPTOMS OF EXPOSURE

Eye Contact Causes irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary

corneal injury. Prolonged vapor contact may cause conjunctivitis.

Skin Contact Causes irritation with symptoms of reddening, itching, and swelling.

Ingestion May cause irritation. Symptoms may include abdominal pain, nausea, vomiting, and diarrhea. Aspiration

hazard if swallowed.

Inhalation Overexposure may cause respiratory irritation, resulting in central nervous system (CNS) depression.

Effects of Chronic Exposure Chronic effects of ingestion and subsequent aspiration into the lungs may cause pneunatocele (lung

cavity) formation and chronic lung dysfunction. Skin contact can cause dermatitis resulting in drying and

cracking of the skin.

Medical Conditions Aggravated May aggravate pre-existing conditions associated with any of the target organs.

Target Organs Eyes, Skin, Respiratory System, Central Nervous System, Kidneys

Routes of Exposure Skin contact, eye contact, inhalation
Potential Environmental Effects See Section 12 for environmental effects

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ID	INGREDIENT	CAS NUMBER	EINECS	EU CLASSIFICATION	% WT
1	Mineral Spirits	064742-88-7	265-191-7	Xn; 65	30 - 60
2	Oil Modified Polyurethane	Trade S	ecret		_
3	Stoddard Solvent	008052-41-3	232-489-3	T, Xn; 45-65	15 - 40
4	Titanium Dioxide	013463-67-7	236-675-5	_	0 - 15*
5	Pigment	Varies	Listed	_	0 - 10*
6	Carbon Black	001333-86-4	215-609-9	_	0 - 10*
7	Iron Oxide	001039-37-1	215-168-2	_	0 - 10*
8	Aluminum	007429-90-5	231-072-3	F; 10-15	0 - 10*
9	Copper	007440-50-8	231-159-6	_	0 - 10*
10	Zinc Dust	007440-66-6	231-175-3	F. N; 15-50/53	0 - 10*

\* Not present in all colors

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 DO NOT INDUCE VOMITING! Wash mouth out with water. Do not give anything by mouth to an

unconscious individual. Consult a physician.

Skin Contact 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.

Eye Contact Immediately flush with clear water for at least 15 minutes, including under the eyelids. Consult a doctor.

Inhalation Immediately move to an area free from exposure with fresh air. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen.

Notes to Physician Stoddard Solvent sensitizes the heart to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmia in individuals exposed. Use of sympathomimetic

drugs should be avoided. If ingested, the material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by

placement of the body in a Trendelenburg and left later lateral decubitus position.

Antidotes No specific antidote.



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**Section 5** FIRE FIGHTING MEASURES **Section 5** 

Flash Point > 105 °F (40.6 °C) **Autoignition Temperature** Not Available **Explosive Limits** Not Available

Conditions of Flammability Heat, sparks, flame, red hot metal

**Extinguishing Media** CO2, dry chemical, or universal aqueous film forming foam

Unsuitable Extinguishing Media Water jet or water-based fire extinguishers **Hazardous Combustion Products** Oxides of carbon (CO, CO2), smoke, and vapors Sensitivity to Mechanical Impact Probably not sensitive as material is stable.

Sensitivity to Static Discharge Vapor within the flammable limits may be ignited by a static discharge of sufficient energy.

**Special Equipment and Precautions** Use water spray to cool fire exposed containers, as contents can rupture violently from heat developed

pressure. Firemen should wear self-contained breathing apparatus.

**Special Explosion Hazards** COMBUSTIBLE LIQUID. Vapors can form an explosive mixture with air and can travel to a source of

ignition (spark or flame) and flash back.

Autoreactivity / Oxidizing Properties Not available

#### **Section 6** ACCIDENTAL RELEASE MEASURES **Section 6**

**Personal Precautions** Use personal protection recommended in Section 8. Isolate hazard area and deny entry to unnecessary

and unprotected personnel.

**Environmental Precautions** Keep out of drains, sewers, ditches, and waterways. Avoid use of water.

**Containment Procedures** Released content may be contained with oil/solvent absorbent pads, booms, and/or absorbents.

Avoid breathing vapors and ventilate area well. Remove sources of ignition and use non-sparking **Cleanup Procedures** 

equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.

Other Information The North American Emergency Response Guidebook, the Australian Dangerous Goods-Initial

Emergency Response Guide (SAA/SNZ HB 76), or similar resources providing emergency response

information for dealing with accidents, spills, leaks, and/or fires involving dangerous goods.

**Prohibited Materials** Combustible absorbent material such as sawdust, use of equipment that may cause sparking.

Reporting Requirements Report releases that reach surface water or groundwater in any amount. Spills, leaks, and overfills from a regulated underground storage tank should also be reported. Reportable quantities for spills onto the

ground depend on site conditions, such as the type of soil and the type of material spilled, and Federal and local agencies often have different reportable quantities. If you are unsure of your reporting

requirements contact the regulating agency in your area.

#### **Section 7** HANDLING AND STORAGE Section 7

**Precautions for Safe Handling** 

and Use

KEEP OUT OF THE REACH OF CHILDREN. When using in spray application, conformance to NFPA

33 Spray Applications using Flammable and Combustible Materials is recommended.

For storage of all flammable materials, conform to NFPA 30 Flammable and Combustible Liquid. Keep Storage Requirements and

containers tightly closed and stored in a well-ventilated place. Keep away from sources of ignition. Conditions

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	N/E	N/E	N/E	N/E	N/E	N/E	N/E
2	N/E	N/E	N/E	N/E	N/E	N/E	N/E



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ID	UNITED STATES	UNITED STATES	UNITED STATES	UNITED STATES	AUSTRALIA	GERMANY	JAPAN
ID	OSHA PEL	NIOSH REL	NIOSH IDLH	ACGIH TLV	TWA	MAK	OEL
3	500 ppm	350 mg/m3	2000 mg/m3	100 ppm	790 mg/m3	N/E	N/E
4	15 mg/m3	N/E	5000 mg/m3	10 mg/m3	10 mg/m3	N/E	1 mg/m3
5	N/E	N/E	N/E	N/E	N/E	N/E	N/E
6	3.5 mg/m3	3.5 mg/m3	1750 mg/m3	3.5 mg/m3	3 mg/m3	N/E	1 mg/m3
7	10 mg/m3	5 mg/m3	2500 mg/m3	5 mg/m3	5 mg/m3	N/E	N/E
8	15 mg/m3	10 mg/m3	N/E	10 mg/m3	2 mg/m3	N/E	2 mg/m3
9	1 mg/m3	1 mg/m3	100 mg/m3	1 mg/m3	1 mg/m3	N/E	N/E
10	15 mg/m3	N/E	N/E	10 mg/m3	N/E	N/E	N/E

ID	CANADA ALBERTA OEL	CANADA BC TWA	CANADA ONTARIO TWAEV	CANADA QUEBEC TWA	MEXICO MPEL-PTA	UNITED KINGDOM WEL	UNITED STATES AIHA WEEL
1	N/E	N/E	N/E	N/E	N/E	N/E	N/E
2	N/E	N/E	N/E	N/E	N/E	N/E	N/E
3	100 ppm	290 mg/m3	525 mg/m3	100 ppm	100 ppm	N/E	N/E
4	5 mg/m3	10 mg/m3	10 mg/m3	5 mg/m3	10 mg/m3	10 mg/m3	N/E
5	N/E	N/E	N/E	N/E	N/E	N/E	N/E
6	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
7	5 mg/m3	5 mg/m3	5 mg/m3	5 mg/m3	5 mg/m3	5 mg/m3	N/E
8	10 mg/m3	10 mg/m3	10 mg/m3	10 mg/m3	10 mg/m3	10 mg/m3	N/E
9	1 mg/m3	1 mg/m3	1 mg/m3	1 mg/m3	1 mg/m3	1 mg/m3	N/E
10	N/E	N/E	N/E	N/E	N/E	N/E	N/E

Engineering Measures Use with adequate ventilation. General ventilation (typically 10 air changes per hour) should be used.

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 None established.

General Hygiene Considerations Avoid breathing vapors and contact with the skin and eyes. Always replace lid when not in use. Keep

out the reach of children. Wash hands after use.

Thermal Hazards This product does not present a thermal hazard.

### PERSONAL PROTECTIVE EQUIPMENT







Respiratory Protection 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.

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

prolonged or repeated contact could occur, use protective clothing impervious to the ingredients list in Section 2.

Eye/Face 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

nandling. Where eye contact with this material could occur, chemical splash proof goggles are recommended.

Other Protective Equipment Safety showers and eye-wash stations should be available in the workplace near where the material will be used.

Section 9	<ul><li>PHYSICAL AND</li></ul>	CHEMICAL PROPERTIES •		Section 9
Boiling Point	> 284 °F (140.0 °C)	Melting / Freezing Point	Not Available	
Flash Point	> 105 °F (40.6 °C)	Autoignition Temperature, Liquid	Not Available	
Explosive Limits	Not Available	Decomposition Temperature	Not Available	



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Flammability Class II Liquid Density ( $H_2O = 1$ ) 0.848 - 0.945 g/cc Molecular Weight Not Available Weight 7.074 - 7.889 lbs/gal

Vapor Pressure Not Available Not Available На Not Available Evaporation Rate (BuAC = 1) Vapor Density Not Available **Partition Coefficient** Not Available **Physical State** Liquid Viscosity Not Available Refractive Index Not Available **Odor Threshold** Not Available **Heat of Combustion** Not Available Odor Paint-like Water Solubility Not Available

Appearance / Color Varies

Percent Volatile 60 - 68% Wt Max VOC Content 497.1 - 562.1 g/L

Percent VOC 60 - 68% Wt Max HAP Content None

Solids Content 32 - 40% Wt Max Maximum Incremental Reactivity 1.094 - 1.237

### Section 10 ● STABILITY AND REACTIVITY ● Section 10

Stability Stable

Physical Hazards Combustible liquid
Conditions to Avoid Not Available

Hazard Polymerization Not expected to occur

Material Incompatibility Strong oxidizing agents

Conditions of Reactivity Heat, sparks, flame, red hot metal

Decomposition Products Oxides of carbon

### Section 11 ● TOXICOLOGICAL INFORMATION ● Section 11

Irritancy of Product The following ingredients are skin irritants: Stoddard Solvent
Sensitization to Product None of the ingredients are known or suspected sensitizers

Carcinogen Data 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.

Reproductive Toxicity None of the ingredients are known or suspected reproductive toxins

Teratogenicity

None of the ingredients are known or suspected teratogens

Mutagenicity

The following ingredients are considered mutagens: Carbon Black

Synergistic Products No known synergistic properties.

### LD50 and LC50 Information

ID	ORAL LD50	DERMAL LD50	INHALATION LC50
1	Not Available	Not Available	Not Available
2	Not Available	Not Available	Not Available
3	Not Available	500 mg/kg, rabbit	Not Available
4	> 24000 mg/kg, rat	> 10000 mg/kg, rabbit	> 6.82 mg/L /4hr, rat
5	Not Available	Not Available	Not Available
6	> 8000 mg/kg, rat	> 3000 mg/kg, rabbit	Not Available
7	> 10000 mg/kg, rat	Not Available	Not Available
8	Not Available	Not Available	Not Available
9	0.7 mg/kg, mouse	Not Available	Not Available
10	Not Available	Not Available	Not Available



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Section 12 ● ECOLOGICAL INFORMATION ● Section 12

MobilityNot AvailableDegradibilityNot AvailablePersistanceNot AvailableBioaccumulationNot Available

Other Ecologic Data Do not allow to enter waters, waste water, or soil.

Effects on the Ozone Layer This product does not contain any ozone depleting ingredients. Very toxic to aquatic organisms, may

cause long-term adverse effects in the aquatic environment.

**Ecotoxicity** 

ID	FISH	INVERTEBRATES	AQUATIC PLANTS	MICROORGANISMS
1	Not Available	Not Available	Not Available	Not Available
2	Not Available	Not Available	Not Available	Not Available
3	Not Available	Not Available	Not Available	Not Available
4	LC50: >1000 mg/L /48 hr	Not Available	Not Available	Not Available
5	Not Available	Not Available	Not Available	Not Available
6	NOEC: 1000 mg/L /96 hr	EC50: >5600 mg/L /24 hr	Not Available	EC0: >100 mg/L /3 hr
7	LC0: >1000 mg/L /48 hr	Not Available	Not Available	Not Available
8	NOEC: >100 mg/L /48 hr	NOEC: >100 mg/L /48 hr	NOEC: >100 mg/L /72 hr	Not Available
9	LC50: 0.8 mg/L /48 hr	Not Available	Not Available	Not Available
10	Not Available	Not Available	Not Available	Not Available

Section 13 ● DISPOSAL CONSIDERATIONS ● Section 13

Waste Disposal Hazard 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 material must be disposed of in compliance with respective national, federal, state, and/or local regulations.

Waste Disposal of Packaging Consult with your local landfill to determine if empty small containers can be disposed of regular trash

pickup. For disposal of large containers (typically 10 gallon or larger), or for containers not suitable for landfill, 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.

Landfill Precautions Not Available
Incineration Precautions Not Available

Section 14 ● TRANSPORTATION INFORMATION ● Section 14

**DOT SHIPPING INFORMATION (United States)** 

FLAMMABLE LIQUID

PROPER SHIPPING NAME: ... Paint Related Material

 HAZARD CLASS:
 3

 PACKING GROUP:
 ///

 UN or ID NUMBER:
 UN1263

NAERG GUIDE NUMBER: .... 128

PLAMMABLE LIQUID

IMDG SHIPPING INFORMATION (International Ocean)
PROPER SHIPPING NAME: ... Paint Related Material

 UN or ID NUMBER:
 UN1263

 PACKING INSTRUCTIONS:
 P001

 EmS NO.:
 F-E, S-E

 STOWAGE:
 Category B

 MFAG NO.:
 310, 313

ICAO/IATA SHIPPING INFORMATION (International Air)



PACKAGING GROUP: .... III
UN or ID NUMBER: .... UN1263

ADR SHIPPING INFORMATION (European Union)



PROPER SHIPPING NAME: ... Paint Related Material,
ADR CLASS: ... 3
PACKAGING GROUP: ... III



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**TDG SHIPPING INFORMATION (Canada)** 

PROPER SHIPPING NAME: ... Paint Related Material

 HAZARD CLASS:
 3

 PACKAGING GROUP:
 III

 UN or ID NUMBER:
 UN1263

### NMFC DESCRIPTION (United States)

ITEM DESCRIPTION: Paint Related Material ITEM NUMBER: 149980 Sub 2

CLASS: 55

**Section 15** 

### REGULATORY INFORMATION

**Section 15** 

United	l States -	Federal
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•	T004							0.1.0.1.1/0.10			01 5 4 11	01 5 4 1
	TSCA	SARA 302				SARA 311/312				CLEAN	CLEAN	
ID	INVENTORY	EHS	RCRA	CERCLA	SARA 313	FIRE	REACTIVITY	ACUTE	CHRONIC	PRESSURE	AIR ACT	WATER ACT
1	/	_	_	_	_	_	_	/	/	_	_	_
2	/					_	_					_
3	/	_	_	_	_	/	_	/	/	_	_	_
4	/		_	_		_	_	_	_			_
5	/	_	_	_	_	_	_	_	_	_	_	
6	/		_	_		_	_	/	/			_
7	/	_	_	_	_	_	_	_	_	_	_	_
8	/	_	_	_	6 %	_	_	_	_		_	_
9	1	_	U208	5000#	9 %	_	_	_	_	_	_	_
10	/		_	1000#	4 %	_	_	_		_	_	PP

#### **United States - States**

Office	Julios State	3							
ID	CALIFORNIA	DELAWARE	FLORIDA	MASSACHUSETTS	PENNSYLVANIA	MINNESOTA	NEW JERSEY	NEW YORK	WASHINGTON
1	_	_	_	_	_	_	_	_	_
2	_		_	_		_	_	_	_
3	_	_	/	2,4	_	ANO	_	_	/
4		_	_	4		Α	_		/
5	_	_	_	_	_	_	_	_	_
6	С	_	_	2,4 F5		ANOR*	_		/
7	_	_	/	2	_	Α	_	_	/
8	_	/	/	4,5 F1 F9	E	Α	/	_	/
9	_	/	/	2,4 F1 F8 F9	*E	AO	/	/	/
10		/	/	5 F1 F8 F9	*E	_	/	/	_

#### Canada

	WHMIS CATEGORIES								CHEMICAL LISTS				
ID	Α	В	С	D1A	D1B	D2A	D2B	D3	E	DSL	NDSL	NPRI	CWC
1	_	_	_	_	_	_	_	_	_	/	_	5	_
2			_		_	_	_	_	_	/	_	_	
3	_	B3	_	_	_	/	_	_	_	/	_	5	_
4	_	_	_	_	_	/	_	_	_	/	_	_	_
5	_	_	_	_	_	_	_	_	_	/	_	_	_
6	_	_	_	_	_	/	_	_	_	/	_	_	_
7	_	_	_	_	_	_	_	_	_	/	_	_	_
8	_	_	_	_	_	_	_	_	_	/	_	1A	_
9	_	_	_	_	_	_	_	_	_	/	_	_	_
10	_	B6	_	_	_	_	_	_	_	/	_	_	_

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.

#### **European Union**

CODE	RISK PHRASES
R 45	May cause cancer
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R 65	Harmful: may cause lung damage if swallowed

CODE	SAFETY PHRASES
S 2	Keep out of the reach of children



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CODE	SAFETY PHRASES
S 7/9	Keep container tightly closed and in a well ventilated place
S 23	Do not breath gas/fumes/vapour/spray
S 24	Avoid contact with skin
S 43	In case of fire use dry chemical
S 46	If swallowed, seek medical advice immediately
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 advise 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 supplest judgement. However, no warranty of merchantability, fitness for any use, or guarantee is expressed or implied regarding the accuracy of such data, or the resuluse thereof. Since the information contained herein may be applied under conditionand with which we may be unfamiliar, we do not assume any responsibility fapplication. This information is furnished upon the condition that the persons receown determinations of the suitability of the material for any particular use. Although described herein, we cannot guarantee these are the only hazards that exist.	r any other warranty or ults to be obtained from ons beyond our control or the results of such iving it shall make their
Revision History	Revision 1, 10/12/2010, Original	