MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION

MANUFACTURED BY: Diamond Vogel Paint REVISED: 12/17/2010 1020 Albany Place SE PRINTED: 12/24/2010

Orange City, IA 51041

General Information: 24 Hour Emergency Telephone Mon-Fri 8 AM - 5 PM

CHEMTREC 1-800-424-9300 712-737-4993

TRADE NAME: Iron Prime 250 Gray Primer R/I L/F

MFG. PRODUCT NUMBER: PB-0625

TT	. HAZARDOUS	TNCDENTE	MTC		
CAS #540-88-5 Tert-Butyl Ace ACGIH TLV: OSHA PEL: 200 ppm VAPOR PRESSURE: 34mmHg@25C	ACGIH STEL: OSHA CEILING: LEL%:	INGREDIE	WT %:	5-20 OSHA PEAK:	Footnote: (1)
CAS #110-43-0 Methyl Amyl Ke ACGIH TLV: 50 PPM TWA OSHA PEL: 100 ppm TWA VAPOR PRESSURE: 2.14 mm	ACCIH STRI.:				Footnote: (1)
CAS #14807-96-6 Talc (powder) ACGIH TLV: 2 mg/m3 TWA (resp OSHA PEL: 20 mppcf TWA VAPOR PRESSURE:) ACCTH CTFI.			1-5 OSHA PEAK:	
CAS #67-64-1 Acetone ACGIH TLV: 500 ppm TWA OSHA PEL: 1000 ppm TWA VAPOR PRESSURE: 185mm Hg60F	ACGIH STEL: OSHA CEILING: LEL%:	1000 ppm		1-5 OSHA PEAK:	Footnote: (1)
CAS #108-88-3 Toluene ACGIH TLV: 50 ppm TWA OSHA PEL: 200 ppm TWA VAPOR PRESSURE: 23.0 mm Hg	ACGIH STEL: OSHA CEILING: LEL%:	300 ppm 1.3	WT %:	1-5 OSHA PEAK:	Footnote: (1)
CAS #1330-20-7 Xylene ACGIH TLV: 100 ppm OSHA PEL: 100 ppm VAPOR PRESSURE: 7 mmHg@20C	ACGIH STEL: OSHA CEILING: LEL%:	150 ppm NE 1		1-5 OSHA PEAK:	Footnote: (1)
CAS #14808-60-7 Crystalline Si ACGIH TLV: 0.025 mg/m3 OSHA PEL: 10/(%SiO2+2) mg/m3 VAPOR PRESSURE: NA	ACGIH STEL: OSHA CEILING:	NE NE			Footnote: (2)
CAS #100-41-4 Ethyl Benzene ACGIH TLV: 100 ppm OSHA PEL: 100 ppm VAPOR PRESSURE: 10 mmHg@20C	ACGIH STEL: OSHA CEILING: LEL%:	125 ppm NE 1	WT %:	0.445 OSHA PEAK:	Footnote: (3)
CAS #1333-86-4 Carbon Black ACGIH TLV: OSHA PEL:	ACGIH STEL: OSHA CEILING:		WT %:	0.196 OSHA PEAK:	Footnote: (4)

VAPOR PRESSURE:

WARNING MESSAGES:

(1) Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Chronic exposure may cause damage to the central nervous system, respiratory system, lung, eye, skin, liver, gastrointestinal tract, spleen, kidneys, and blood.

LEL%:

- (2) International Agency for Research on Cancer (IARC) Monograph Volume 68 (1997) concludes that Crystalline Silica is "carcinogenic to humans (Group 1)" based on sufficient evidence in humans and experimental animals.
- (3) International Agency for Research on Cancer (IARC) Monograph Volume 77 (2000) concluded that Ethylbenzene is "possibly carcinogenic to humans (Group 2B)" based on inadequate evidence in humans and sufficient evidence in experimental animals.
- (4) International Agency for Research on Cancer (IARC) Monograph Volume 65 (1996) concludes that Carbon Black is "possibly carcinogenic to humans (Group 2B)" based on inadequate evidence in humans and sufficient evidence in experimental animals.
- (5) See Section IX for reportable Hazardous Air Pollutants.

III. PHYSICAL DATA

BOILING RANGE: 133-308° F

EVAPORATION RATE: * slower than ether *

PERCENT VOLATILE BY VOLUME: 41.76% WEIGHT PER GALLON: 12.87 LBS

VAPOR DENSITY: * heavier than air *

ACTUAL VOC (lb/gal): 1.72

EPA VOC (lb/gal): 2.08 EPA VOC (g/L): 249.27

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: -17° C 1° F LEL: Refer to Section II

FLAMMABILITY CLASSIFICATION: CLASS 1B

HAZARD CLASSIFICATION: *Flammable Liquid

EXTINGUISHING MEDIA: *carbon dioxide, dry chemical, or fire foam*

UNUSUAL FIRE AND EXPLOSION HAZARDS: With excessive heat, cans will rupture from internal pressure and discharge flammable contents.

Vapors may ignite explosively. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build up of vapors by opening all windows and doors to achieve cross-ventilation.

SPECIAL FIREFIGHTING PROCEDURES: Burning will produce toxic fumes. Wear

self-contained breathing apparatus and full turn-out gear to fight fires. USE WATER WITH CAUTION. Material will float and may ignite on surface of water. Use water spray to keep fire exposed containers cool. Water may be ineffective in fighting the fire.

V. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See Section II.

EFFECTS OF OVEREXPOSURE:

Acute- High vapor concentrations are irritating to the eyes and the respiratory tract, and may cause headaches, dizziniess, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death. Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

Chronic- Xylene contains ethylbenzene which has been classified as a possible carcinogen to humans, Group 2B, by the International Agency for Research on Cancer (IARC), based on sufficient evidence in laboratory animals but inadequate evidence for cancer in humans. Prolonged or repeated overexposure to ethylbenzene may cause the following: kidney effects, liver effects, lung effects, thyroid effects, testicular effects, pituitary effects.

This product also contains crystalline silica which is classified by IARC to be a Group 1 carcinogen. This category is used when their is sufficient evidence of carcinogenicity in humans. Crystalline silica may also cause delayed respiratory disease (silicosis) if inhaled over a long period of time. Avoid breathing dust. Use NIOSH/MSHA approved respirator when TLV for crystalline silica may be exceeded.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Eye disease, Skin disorders and Allergies

PRIMARY ROUTE(S) OF ENTRY: Eyes, Ingestion, Skin, Inhalation

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Restore breathing. Treat symptomatically. Consult a physician.

EYES: Flush immediately with large amounts of water for at least 15 minutes. Talk to a physician for medical treatment.

SKIN: Wipe off with towel. Wash with soap and water. Remove contaminated clothing.

INGESTION: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by a medical personnel. Never give anything by

mouth to an unconscious person.

VI. REACTIVITY DATA

STABILITY: *stable* HAZARDOUS POLYMERIZATION: *will not occur*

INCOMPATIBILITY: oxidizing agents, halogens, strong reducing agents and strong bases.

 ${\tt HAZARDOUS\ DECOMPOSITION\ PRODUCTS:\ Fire,\ burning\ and\ welding\ may\ generate}$

carbon monoxide.

CONDITIONS TO AVOID: Fire, burning, and welding.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces and electrical, static or frictional sparks). Avoid breathing vapors. Ventilate area. Use non-sparking tools. Remove with inert absorbant.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

If air concentrations above the TLV are possible, wear a NIOSH/MSHA approved respirator.

VENTILATION: Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV and LEL of most hazardous ingredient in Section II, below acceptable limit.

PROTECTIVE GLOVES: Permeation resistant gloves (butyl rubber, nitrile rubber) should be used. Cover as much of the exposed skin area as possible with appropriate clothing.

EYE PROTECTION:

Splash proof eye goggles. In emergency situations, use eye goggles with a full face shield.

OTHER PROTECTIVE EQUIPMENT: Protective clothing such as coveralls or lab

coats must be worn.

HYGIENIC PRACTICES: See Section V

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Keep away from heat. Keep away from sparks, flames and other

sources of ignition. Store in a cool, dry place. Keep container closed when not in use. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Ground and bond containers when transferring material. Use explosion proof equipment. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

OTHER PRECAUTIONS: * none *

LIST OF HAZARDOUS AIR POLLUTANTS SUBJECT TO THE PROVISIONS OF THE CLEAN AIR ACT, TITLE I SECTION 112 'National Emission Standards for Hazardous Air Pollutants':

Ingredient	CAS #		Pounds HAPS/ Gal product
Toluene	108-88-3	3.6 %	0.5
Xylene	1330-20-7	1.9 %	0.2

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TRADE NAME: Iron Prime 250 Red Primer R/I L/F

MFG. PRODUCT NUMBER: PB-5625

	II.	HAZARDOUS	INGREDIE	NTS		
CAS #540-88-5 ACGIH TLV: OSHA PEL: 200 VAPOR PRESSUR	Tert-Butyl Ace ppm E: 34mmHg@25C	tate ACGIH STEL: OSHA CEILING: LEL%:		WT %:	5-20 OSHA PEAK:	Footnote: (1)
ACGIH TLV: 50 OSHA PEL: 100	Methyl Amyl Ker PPM TWA ppm TWA E: 2.14 mm	ACGIH STEL: OSHA CEILING:		WI 0.	5-20 OSHA PEAK:	roothote: (1)
CAS #14807-96-6 ACGIH TLV: 2 OSHA PEL: 20 VAPOR PRESSUR	mg/m3 TWA (resp) ACGIH STEL: OSHA CEILING: LEL%:			1-5 OSHA PEAK:	
OSHA PEL: 100	Acetone 0 ppm TWA 0 ppm TWA E: 185mm Hg60F	OSHA CEILING:	1000 ppm		1-5 OSHA PEAK:	Footnote: (1)
OSHA PEL: 200	Toluene ppm TWA ppm TWA E: 23.0 mm Hg	OSHA CEILING:	300 ppm			Footnote: (1) 500 ppm
CAS #1330-20-7 ACGIH TLV: 10 OSHA PEL: 100 VAPOR PRESSUR	Xylene 0 ppm ppm E: 7 mmHg@20C	ACGIH STEL: OSHA CEILING: LEL%:	150 ppm NE	WT %:	1-5 OSHA PEAK:	Footnote: (1)
OSHA PEL: 10/	Crystalline Si 025 mg/m3 (%SiO2+2) mg/m3 E: NA	ACGIH STEL: OSHA CEILING:	NE NE			
CAS #100-41-4 ACGIH TLV: 10 OSHA PEL: 100 VAPOR PRESSUR	Ethyl Benzene 0 ppm ppm E: 10 mmHg@20C	ACGIH STEL: OSHA CEILING: LEL%:	125 ppm NE 1	WT %:	0.427 OSHA PEAK:	Footnote: (3)

WARNING MESSAGES:

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PB-5625

concentrating and inhaling the contents may be harmful or fatal. Chronic exposure may cause damage to the central nervous system, respiratory system, lung, eye, skin, liver, gastrointestinal tract, spleen, kidneys, and blood.

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VAPOR DENSITY: * heavier than air *

ACTUAL VOC (lb/gal): 1.72

EPA VOC (lb/gal): 2.08 EPA VOC (g/L): 249.27

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PB-5625

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PB-5625 4

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