

Material Safety Data Sheet

Issuing Date 16-May-2011 Revision Date Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name HPS-5B BLACK

Product Code(s) 999513

Recommended Use Epoxy resin

Product Technology Epoxy

Supplier Address

Ennis Paint Inc.

5910 North Central Expressway

Suite 1050 Dallas TX 75206 T: 800.331.8118

800.331.8118 (For Technical Inquiries)

Chemical Emergency Phone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Irritating to eyes, respiratory system and skin
May produce an allergic reaction
Cancer hazard

WARNING! This product contains a chemical known in the State of California to cause cancer.

Appearance Black Physical State Viscous liquid. Odor Amine

Potential Health Effects

Acute Toxicity

Eyes Irritating to eyes.

Skin Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons.

Inhalation Irritating to respiratory system.

Ingestion Ingestion may cause irritation to mucous membranes.

Chronic Effects Repeated contact may cause allergic reactions in very susceptible persons. This product

contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on

Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation.

Aggravated Medical Conditions Pre-existing eye disorders. Skin disorders. Respiratory disorders.

Environmental Hazard See Section 12 for additional Ecological Information.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Modified polyamine	Proprietary	60-100
Silica, cristobalite	14464-46-1	7-13
Iron manganese oxide ((Fe,Mn)2O3)	75864-23-2	1-5
Quartz	14808-60-7	0.1-1
BARIUM	7440-39-3	<0.1
Chromium	7440-47-3	<0.1
Nickel	7440-02-0	<0.1

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a

physician immediately.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Remove and wash

contaminated clothing before re-use. Consult a physician.

Inhalation Move to fresh air. If not breathing, give artificial respiration. Administer oxygen if breathing is

difficult. Seek immediate medical attention/advice.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink Ingestion

plenty of water. Call a physician immediately.

Notes to Physician Treat symptomatically. May cause sensitization of susceptible persons.

Protection of First-aiders Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Combustible material: may burn but does not ignite readily. Flammable Properties

206.6°F / 97°C **Flash Point**

Suitable Extinguishing Media Use: Water spray. Carbon dioxide (CO₂). Dry powder. Foam.

Explosion Data

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge

None

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

Health Hazard 2 **Physical and Chemical NFPA** Flammability 1 **Instability** 0

Hazards *

Health Hazard 2* Flammability 1 Personal Protection -**HMIS Physical Hazard** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use

personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for Containment Dike far ahead of liquid spill for later disposal.

Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Take Methods for Cleaning Up

up mechanically and collect in suitable container for disposal. Clean contaminated surface

thoroughly.

7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Do not breathe vapors or spray mist. Avoid contact with

skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Storage Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Nickel	TWA: 1.5 mg/m ³	TWA: 1 mg/m ³	IDLH: 10 mg/m ³
7440-02-0		(vacated) TWA: 1 mg/m ³	TWA: 0.015 mg/m ³
Iron manganese oxide	TWA: 1 mg/m ³ Fe	(vacated) TWA: 1 mg/m ³ Fe	IDLH: 500 mg/m ³ Mn
((Fe,Mn)2O3)	TWA: 0.2 mg/m ³ Mn	(vacated) Ceiling: 5 mg/m ³	TWA: 1 mg/m ³ Fe
75864-23-2	_	Ceiling: 5 mg/m ³ Mn	TWA: 1 mg/m ³ Mn
			STEL: 3 mg/m³ Mn
Quartz	TWA: 0.025 mg/m³respirable fraction	TWA: 0.1 mg/m³ (vacated)	IDLH: 50 mg/m3 respirable dust
14808-60-7			TWA: 0.05 mg/m ³ respirable dust
Silica, cristobalite	TWA: 0.025 mg/m³respirable fraction	(vacated) TWA: 0.05 mg/m³respirable	IDLH: 25 mg/m³respirable dust
14464-46-1		dust	TWA: 0.05 mg/m ³ respirable dust
		: (1/2)(30)/(%SiO2 + 2) mg/m ³ TWA total	
		dust	
		: (1/2)(250)/(%SiO2 + 5) mppcf TWA	
		respirable fraction	
		: (1/2)(10)/(%SiO2 + 2) mg/m ³ TWA	
		respirable fraction	

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. NIOSH IDLH: Immediately Dangerous to Life or Health.

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 **Other Exposure Guidelines**

(11th Cir., 1992).

Engineering Measures Showers. Eyewash stations. Ventilation systems.

Personal Protective Equipment

Eye/Face Protection Goggles.

Skin and Body Protection Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance

with current local regulations.

Hygiene Measures When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-

use. Wash thoroughly after handling. Provide regular cleaning of equipment, work area and

clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceBlack.OdorAmine.Odor ThresholdNo information availablePhysical StateViscous liquid

pH No information available.

Flash Point 206.6°F / 97°C Autoignition Temperature No information available.

Decomposition Temperature No information available.

Boiling Point/Boiling Range No information available

Melting Point/Range No information available

Flammability Limits in Air No information available. Explosion Limits No information available.

SolubilityNo information available.Evaporation RateNo information availableVapor PressureNo data availableVapor DensityNo data available

VOC Content (%) 0.0527

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible Products Oxidizing or reducing agents.

Conditions to Avoid Excessive heat.

Hazardous Decomposition Products Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂).

Hazardous Polymerization Polymerization may occur when exposed to excessive heating and incompatibles.

Revision Date

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

No acute toxicity information is available for this product.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Quartz	500 mg/kg (Rat)		

Chronic Toxicity

Chronic Toxicity

Repeated contact may cause allergic reactions in very susceptible persons. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation.

Carcinogenicity

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
Silica, cristobalite	A2	Group 1		X
Quartz	A2	Group 1	Known	X
Chromium		Group 3		
Nickel		Group 2B	Reasonably Anticipated	X
		Group 1		

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3: Not Classifiable as to its Carcinogenicity to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Target Organ Effects Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Nickel	EC50 96 h: 0.174 - 0.311	LC50 96 h: = 1.3 mg/L semi-	-	EC50 48 h: = 1 mg/L Static
	mg/L static	static (Cyprinus carpio)		(Daphnia magna)
	(Pseudokirchneriella	LC50 96 h: = 10.4 mg/L static		EC50 48 h: > 100 mg/L
	subcapitata)	(Cyprinus carpio)		(Daphnia magna)
	EC50 72 h: = 0.18 mg/L	LC50 96 h: > 100 mg/L		
	(Pseudokirchneriella	(Brachydanio rerio)		
	subcapitata)			

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

Contaminated Packaging Do not re-use empty containers.

US EPA Waste Number D007

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
BARIUM - 7440-39-3		Included in waste stream: F039	100.0 mg/L regulatory level	
Chromium - 7440-47-3		Included in waste streams: F032, F034, F035, F037, F038, F039	5.0 mg/L regulatory level	
Nickel - 7440-02-0	(hazardous constituent - no waste number)	Included in waste streams: F006, F039		

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
BARIUM	Toxic
	Ignitable
Chromium	Toxic
	Corrosive
	Ignitable
Nickel	Toxic powder
	Ignitable powder

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA All components are listed on the TSCA Inventory.

All components are listed either on the DSL or NDSL.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Iron manganese oxide ((Fe,Mn)2O3)	75864-23-2	1-5	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Nickel		X	X	

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances	RQ
		RQs	
Nickel	100 lb		RQ 100 lb final RQ
			RQ 45.4 kg final RQ
BARIUM	1000 lb		RQ 1000 lb final RQ
			RQ 454 kg final RQ
Chromium			RQ 5000 lb final RQ
			RQ 2270 kg final RQ

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Nickel	7440-02-0	Carcinogen
Quartz	14808-60-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Iron manganese oxide ((Fe,Mn)2O3)			X	X	X
Quartz	Х	Х	Х	-	Х
Silica, cristobalite	X	X	X		
Silica, amorphous, diatomaceous earth			X		

International Regulations

Mexico - Grade Slight risk, Grade 1

Chemical Name	Carcinogen Status	Exposure Limits
Nickel		Mexico: TWA 1 mg/m ³
Chromium		Mexico: TWA 0.5 mg/m ³

Chemical Name	Carcinogen Status	Exposure Limits
Iron manganese oxide ((Fe,Mn)2O3)		Mexico: TWA 1 mg/m ³
		Mexico: TWA 0.2 mg/m ³
		Mexico: STEL 2 mg/m ³
Quartz		Mexico: TWA= 0.1 mg/m ³
Silica, cristobalite		Mexico: TWA 0.05 mg/m ³

Canada

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.

WHMIS Hazard Class

D2A Very toxic materials D2B Toxic materials



Canadian National Pollutant Release Inventory (NPRI)

Chemical Name	NPRI
Nickel	X
Chromium	X

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Prepared By Product Stewardship

> 23 British American Blvd. Latham, NY 12110 1-800-572-6501

Issuing Date

16-May-2011

Revision Date

Initial Release. **Revision Note**

General Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication and it does not purport to be all inclusive and shall be used only as a guide. We urge each customer or recipient of this MSDS to study it carefully to become aware of and understand the potential hazards associated with the product. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Any use of the product not in conformance with this MSDS or in combination with any other product or process is the responsibility of the user. Customary precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Remove all soiled and contaminated clothing immediately.

End of Safety Data Sheet