

Powers Fasteners, Inc. • 2 Powers Lane, Brewster • NY, U.S.A. 10509 • Phone 1-914-235-6300

## MATERIAL SAFETY DATA SHEET

### SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**Product identifier:** PE1000+ ADHESIVE ANCHOR SYSTEM

**Product use:** Self-contained, two-part adhesive system, with mixing ratio of 3:1 by volume (resin to hardener). Used to anchor threaded rods, bolts and reinforcing bars into concrete and masonry materials. Also used to anchor into hollow masonry materials using rod and rebar with screen tubes.

**Chemical Family:** Epoxy resin component; and amine hardener component.

**Supplier's name and address:**

***Powers Fasteners, Inc.***

2 Powers Lane

Brewster, NY

U.S.A.

10509

Phone: 1-914-235-6300 (8 AM to 8 PM EST, Monday to Thursday; 8 AM to 7 PM EST, Friday)

**Manufacturer's name and address:**

Refer to supplier.

**Emergency Tel.#:** CHEMTREC – 800-424-9300

### SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (weight)	ACGIH TLV		OSHA PEL	
			TWA	STEL	PEL	STEL
<b>Component A, Epoxy resin:</b>						
Bisphenol A / Epichlorohydrin based epoxy resin	25068-38-6	30 – 60	N/Av	N/Av	N/Av	N/Av
Diglycidyl ether of 1,6-Hexanediol	16096-31-4	7 - 13	N/Av	N/Av	N/Av	N/Av
Crystalline silica, quartz	14808-60-7	20 - 40	0.025 mg/m <sup>3</sup>	N/Av	*0.1 mg/m <sup>3</sup>	N/Av
Bisphenol F epoxy resin	9003-36-5	10 - 30	N/Av	N/Av	N/Av	N/Av
<b>Component B, amine hardener:</b>						
Diethylenetriamine	111-40-0	5 - 10	1 ppm (skin)	N/Av	*1 ppm	N/Av
Phenol	108-95-2	1 - 3	5 ppm (skin)	N/Av	5 ppm (skin)	N/Av
Benzyl alcohol	100-51-6	5 - 10	10 ppm (AIHA WEEL)	N/Av	N/Av	N/Av
Xylylenediamine	1477-55-0	5 - 10	0.1 mg/m <sup>3</sup> (skin) (ceiling)	N/Av	*0.1 mg/m <sup>3</sup> (skin) (ceiling)	N/Av
Isophorone diamine	2855-13-2	10 - 30	N/Av	N/Av	N/Av	N/Av
2,4,6-Tris(dimethylamino-methyl)phenol	90-72-2	5 - 10	N/Av	N/Av	N/Av	N/Av
Amorphous silica	112945-52-5	3 - 7	N/Av	N/Av	N/Av	N/Av
*Note: The OSHA PEL's listed above for Crystalline silica, quartz; Diethylenetriamine and Xylylenediamine are final rule / vacated values.						

This product is classified as hazardous under OSHA regulations (29CFR 1910.1200).

### SECTION 3 — HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**Component A, epoxy resin:** Paste (solid). Characteristic epoxy odor.

Warning! May cause allergic skin reaction. Inhalation may cause respiratory irritation. May be harmful if swallowed. Prolonged or repeated skin contact may cause drying and irritation. If reacted material is further processed (e.g. sanded, drilled) and dusts are formed, this product presents a possible chronic respiratory and cancer hazard - Contains material which may cause lung damage and cancer.

**Component B, amine hardener:** Black paste (solid). Amine odor.

Danger! Corrosive. Causes eye, skin and digestive tract burns. Poison. May be harmful or fatal if too much is inhaled, or if the product is absorbed through the skin. Harmful if swallowed. Causes severe respiratory irritation. May cause allergic skin reaction. Contains material which may cause lung damage.

#### \*\*\*POTENTIAL HEALTH EFFECTS\*\*\*

**Target organs:** Eyes, skin, respiratory system, digestive system, central nervous system.

**Routes of exposure:** Skin contact, skin absorption, eye contact, inhalation, ingestion.

**Signs and symptoms of short-term (acute) exposure:**

*Inhalation:*

Component A: May cause irritation of the nose, throat, mucous membranes, and respiratory tract.

Component B: May cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, chest pain and shortness of breath. Additional symptoms may include headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

*Skin:*

Component A: Direct skin contact may cause mild irritation. Prolonged contact, such as when trapped against the skin under clothing or jewelry, may be more irritating.

Component B: Direct contact may produce chemical burns to affected skin areas. Could result in permanent damage and scarring. Product may be readily absorbed through the skin, and cause symptoms similar to those listed for ingestion.

*Eyes:*

Component A: Direct eye contact may cause mild irritation. Symptoms may include redness, pain, tearing and swelling.

Component B: Direct eye contact may cause burns and possibly permanent eye damage (blindness). Exposure to low vapor concentrations may cause swelling (edema) of the eyes, resulting in blurring of vision with a bluish haze and/or appearance of halos around lights.

*Ingestion:*

Component A: Can cause irritation to the mouth, throat and stomach. Symptoms may include pain, nausea, vomiting and diarrhea.

Component B: May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include severe abdominal pain, internal bleeding, vomiting, diarrhea, difficulty breathing, shock, collapse and eventually death.

**Chronic effects:**

Component A: Repeated or prolonged skin exposure may result in drying, cracking and defatting of the skin (dermatitis). If airborne dusts are formed following further processing (e.g. sanding, drilling) of reacted material, inhalation may cause severe scarring of the lungs, a disease called silicosis, and alveolar proteinosis (lower lung disease).

Component B: Repeated or prolonged inhalation may result in severe lung inflammation and injury. Repeated or prolonged skin exposure may result in darkening of the skin and urine.

**Conditions aggravated by exposure:** Pre-existing skin, eye and respiratory disorders.

**Carcinogenic status:** See TOXICOLOGICAL INFORMATION, Section 11.

**Additional health hazards:** Possible sensitizer. See TOXICOLOGICAL INFORMATION, Section 11.

**Potential environmental effects:** See ECOLOGICAL INFORMATION (Section 12).

#### SECTION 4 — FIRST AID MEASURES

**Inhalation:** Immediately remove person to fresh air. If breathing has stopped, begin artificial respiration. Obtain medical attention immediately.

**Skin contact:** Immediately remove contaminated clothing and shoes under running water. Flush skin thoroughly with running water for at least 15 minutes. Do not rub area of contact. Obtain medical attention immediately. Launder clothing before reuse.

**Eye contact:** Immediately flush eyes with running water for a minimum of 20 minutes. Obtain medical attention immediately.

**Ingestion:** Do not induce vomiting! Have victim rinse mouth with water, then give one to two glasses of water to drink. Obtain medical attention immediately. Never give anything by mouth to an unconscious or convulsing person.

**Note to Physicians:** Contains corrosive chemicals. Prompt medical attention is important. Treat symptomatically.

#### SECTION 5 — FIRE FIGHTING MEASURES

**Fire hazards/conditions of flammability:** The components of this product are not considered flammable. Heating cartridges may cause pre-mature polymerization, which could potentially burst the containers.

**Flammability classification (OSHA 29 CFR 1910.1200):** Non-flammable.

**Flash point (Method):** Component A: > 150°C / 302°F (Closed cup)  
Component B: 111°C / 232°F (Closed cup)

**Auto-ignition temperature:** Component A: > 200°C / 392°F  
Component B: N/Av

**Lower flammable limit (% by vol.):** N/Av

**Upper flammable limit (% by vol.):** N/Av

**Explosion data:** *Sensitivity to mechanical impact / static discharge:* Not expected to be sensitive.

**Oxidizing properties:** None known.

**Suitable extinguishing media:** Use carbon dioxide, foam, dry chemical or water spray. Do not use water jet.

**Special fire-fighting procedures/equipment:** Do not enter fire area without proper protection. Firefighters should wear proper chemically protective equipment and self-contained breathing apparatus with full facepiece. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment exposed to heat and flame.

**Hazardous combustion products:**

Component A: Carbon oxides, silicon oxides, aldehydes, acids and other irritating fumes and smoke.

Component B: Carbon oxides, nitrogen oxides, hydrogen cyanide, ammonia, aldehydes, acids and other irritating fumes and smoke.

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

**Environmental precautions:** Ensure any spilled liquid does not enter drains, sewers, waterways or confined spaces.

**Spill response/Cleanup:** Eliminate all sources of heat, sparks and flame. Ventilate area of release. Stop leak if you can do so without risk. Cover spilled materials with inert, non-combustible absorbent material (e.g. sand, vermiculite), then place contaminated absorbent material into a suitable container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

**Prohibited materials:** None known.

**Special spill response procedures:** In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).

DOT/CERCLA Reportable quantity (RQ): Phenol (1000 lbs / 454 kg).

## SECTION 7 — HANDLING AND STORAGE

**Safe handling procedures:** Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted. Wear protective equipment during handling. Use in a well ventilated area. Component A polymerizes with the addition of Component B. Reaction is exothermic and can be hazardous depending on temperature and quantity. May give off hazardous vapours during polymerization. Keep away from heat and flame. Keep away from incompatible materials (see Section 10). Avoid generating vapours, mists or dusts. Avoid contact with eyes, skin or clothing. Take precautions to prevent premature mixing of components and subsequent premature curing. Wash hands before eating, drinking, smoking or use of toilet facilities. Launder contaminated clothing before reuse.

**Storage requirements:** Store in a cool, dry, well-ventilated area away from sources of heat. Keep away from incompatibles materials. Inspect containers periodically for damage or leaks. Encourage good housekeeping and personal hygiene. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

**Special packaging materials:** Always keep in containers made of the same materials as the supply container.

## SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Ventilation and engineering controls:** Use adequate ventilation to maintain air contaminants below exposure limits. Local exhaust is recommended to prevent contaminant dispersion into the work area.

**Respiratory protection:** Respiratory protection is required if the airborne concentration exceeds exposure limits. When concentrations exceed the exposure limits specified, use NIOSH/MSHA-approved air-purifying respirators. In poorly ventilated or confined spaces, use a NIOSH/MSHA-approved self-contained breathing apparatus. Advice should be sought from respiratory protection specialists.

**Skin protection and other protective equipment:** Protective gloves impervious to the material must be worn during use. Confirmation of what type of material is most suitable for the intended application, should be obtained from glove suppliers. Additional impervious protective clothing, such as a chemically resistant apron and long sleeves, are recommended to prevent skin contact. An eyewash station and safety shower should be made available in the immediate working area.

**Eye / face protection:** Use chemical splash goggles. Contact lenses should not be worn.

**General hygiene considerations:** Avoid breathing vapors, mists or dusts. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when working. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Contaminated work clothing should not be allowed out of the workplace.

**Permissible exposure levels:** For individual ingredient exposure levels, see Section 2.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

**Physical state, odor and appearance:** Component A: Black paste (solid). Characteristic epoxy odor.  
Component B: Black paste (solid). Amine odor.

**Specific gravity:** Component A: 1.5  
Component B: 1.41

**Solubility in water:** Component A: Insoluble  
Component B: N/Av.

**pH:** Component A: N/Av  
Component B: ~ 10 (20%)

**Odor threshold:** N/Av.

**Vapor density (Air = 1):** N/Av

**Evaporation rate (n-Butyl acetate = 1):** N/Av.

**Coefficient of water/oil distribution:** N/Av

**Vapor pressure:** N/Av.

**Boiling point:** > 200°C (392°F).

**Freezing point:** N/Av.

**Volatiles (% by weight):** N/Av.

## SECTION 10 — REACTIVITY AND STABILITY DATA

**Stability and reactivity:** Excessive heating above 50°C / 122°F may degrade the resin component. Component A polymerizes with the addition of Component B. Reaction is exothermic and can be hazardous depending on temperature and quantity. On prolonged standing, Component B may oxidize or begin to break down, and turn darker colors.

### SECTION 10 — REACTIVITY AND STABILITY DATA Continued

**Hazardous polymerization:** Mixing of components results in polymerization and heat is generated. Heating cartridges may cause pre-mature polymerization, which could potentially burst the cartridges.

**Conditions to avoid:** Heat, open flame, other sources of ignition, direct sunlight and moisture.

**Materials to avoid (incompatibles):**

**Component A:** Amines, oxidizing agents (e.g. Chlorine, inorganic peroxides, etc.), acids (e.g. Sulfuric acid, etc.), bases (e.g. Sodium hydroxide, etc.), alcohols.

**Component B:** Acids (e.g. Sulfuric acid, etc.), nitrogen compounds, halogenated compounds, bases (e.g. Sodium hydroxide, etc.), reducing agents (e.g. metal hydrides, etc.).

**Hazardous decomposition products:** Peroxides. Refer also to 'Hazardous Combustion products', Section 5.

### SECTION 11 — TOXICOLOGICAL INFORMATION

**Toxicological data:** There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Ingredients	LC <sub>50</sub> (4hr) inh, rat	LD <sub>50</sub> (mg/kg)	
		oral, rat	dermal, rabbit
<b>Component A, epoxy resin:</b>			
Bisphenol A / Epichlorohydrin based epoxy resin	Not available	11,400	> 23,500
Diglycidyl ether of 1,6-Hexanediol	Not available	Not available	Not available
Crystalline silica, quartz	Not available	Not available	Not available
Bisphenol F epoxy resin	Not available	> 2000	> 400 (rat)
<b>Component B, amine hardener:</b>			
Diethylenetriamine	Not available	1080	1046
Phenol	Not available	320	850
Benzyl alcohol	Not available	1230	Not available
Xylylenediamine	800 mg/m <sup>3</sup>	980	2000
Isophorone diamine	Not available	1030	Not available
2,4,6-Tris(dimethylamino-methyl)phenol	Not available	1200	1280 (rat)
Amorphous silica	Not available	3160	Not available

**Carcinogenic status:**

**Component A:** Contains Crystalline silica, quartz. Crystalline silica, quartz is classified as carcinogenic by IARC (Group 1), ACGIH (Category A2) and NTP (Group 1).

**Component B:** No components are listed as carcinogens by IARC, ACGIH, NTP or OSHA.

**Reproductive effects, Teratogenicity, Mutagenicity:** None known.

**Sensitization to material:**

**Component A:** May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema. Not expected to cause respiratory sensitization reactions.

**Component B:** May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema. There is limited evidence of occupational respiratory sensitization. If sensitization occurs, asthmatic symptoms may occur.

**Other important hazards:** CNS depression may result from exposure.

**Synergistic materials:** Not available.

## SECTION 12 — ECOLOGICAL INFORMATION

**Ecotoxicological information:** There is no data available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. This product contains an ingredient, Bisphenol A / Epichlorohydrin based epoxy resin, that is harmful to aquatic organisms. The acute toxicity of Bisphenol A / Epichlorohydrin based epoxy resin is measured to be:

Fish – 96-Hr LC<sub>50</sub>, Rainbow Trout = 1.5 – 7.7 mg/L.

Invertebrates – 24-Hr EC<sub>50</sub>, Daphnia magna = 1.1 – 3.6 mg/L

Plants - 96-Hr EC<sub>50</sub>, Green Algae = 220 mg/L

**Mobility:** There is no data available on the product itself.

**Persistence and degradability:** There is no data available on the product itself.

**Bioaccumulative potential:** There is no data available on the product itself.

## SECTION 13 — DISPOSAL CONSIDERATIONS

**Handling for disposal:** Handle according to recommendations listed in Section 7.

**Methods of disposal:** Dispose in accordance with all applicable federal, state, provincial and/or local regulations. Contact your local, state, provincial and/or federal environmental agency for specific rules.

**RCRA:** If this product, as supplied, becomes a waste, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. Under the RCRA, it is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

## SECTION 14 — TRANSPORTATION INFORMATION

### US 49 CFR information:

**Component A:** Not regulated for transport by ground within the continental United States, unless intended for marine transport. If shipping by sea, refer to International IMO/IMDG Information

**Component B:** *Proper Shipping Name:* Amines, solid, corrosive, n.o.s. (Isophorone diamine, Xylylenediamine)

Hazard Class - Primary: 8

Identification No.: UN3259

Packing Group: III

Label Codes: 8

RQ Components: None

Marine Pollutant: None.

*Special Transportation Notes:* As supplied, this product can be shipped by ground within the United States as a Limited Quantity. Under the US 49 CFR, refer to Sections 173.154 for Limited Quantity shipping requirements. The means of containment must not exceed 66 pounds (30 kg) gross weight.

### Canadian Transportation of Dangerous Goods Regulations (TDGR) information:

**Component A:** Not regulated for transport by ground within Canada, unless intended for marine transport. If shipping by sea, refer to International IMO/IMDG Information.

**Component B:** *Proper Shipping Name:* AMINES, SOLID, CORROSIVE, N.O.S. (Isophorone diamine, Xylylenediamine)

UN No.: UN3259

Primary Class(es): 8

Subsidiary Class(es): None

Packing Group: III

*Other Shipping Information:* As supplied, this product can be shipped by ground within Canada as a Limited Quantity. Refer to Section 1.17 for additional requirements for Limited Quantities. The means of containment must not exceed 30 kg (66 pounds) gross weight.

## SECTION 14 — TRANSPORTATION INFORMATION Continued

### International IATA / ICAO information:

Component A: *Proper Shipping Name:* Environmentally hazardous substance, solid, n.o.s. (Epoxy resin)

UN No.: UN3077

Primary Class(es): 9

Subsidiary Class(es): None

Packing Group: III

Packing Instruction(s), passenger aircraft: 911

Packing Instruction(s), cargo aircraft only: 911

*Other Shipping Information:* Review all State and operator variations, prior to shipping this material.

Prior to shipping this material, ensure that the packing instructions listed above are still applicable at the time of shipping.

Component B: *Proper Shipping Name:* Amines, solid, corrosive, n.o.s. (Isophorone diamine, Xylylenediamine)

UN No.: UN3259

Primary Class(es): 8

Subsidiary Class(es): None

Packing Group: III

Packing Instruction(s), passenger aircraft: 822

Packing Instruction(s), cargo aircraft only: 823

*Other Shipping Information:* Review all State and operator variations, prior to shipping this material.

Prior to shipping this material, ensure that the packing instructions listed above are still applicable at the time of shipping.

### International IMO/IMDG information:

Component A: *Proper shipping name:* ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy resin)

UN number: UN3077

Class: 9

Packing Group: III

EmS: F-A, S-F

Marine Pollutant (Yes/No): Yes

*Other Shipping Information:* As supplied, this product can be shipped internationally by sea as a Limited Quantity. Combination packagings must be used and the maximum gross weight of the package must not exceed 30 kg. Refer to the IMDG Code Chapter 3.4 for additional requirements.

Component B: *Proper shipping name:* AMINES, SOLID, CORROSIVE, N.O.S. (Isophorone diamine, Xylylenediamine)

UN number: UN3259

Class: 8

Packing Group: III

EmS: F-A, S-B

Marine Pollutant (Yes/No): No

*Other Shipping Information:* As supplied, this product can be shipped internationally by sea as a Limited Quantity. Combination packagings must be used and the maximum gross weight of the package must not exceed 30 kg. Refer to the IMDG Code Chapter 3.4 for additional requirements.

## SECTION 15 — REGULATORY INFORMATION

### US State Right to Know Laws:

#### California Proposition 65:

Component A: This product contains a chemical, Crystalline silica (quartz), known to the State of California to cause cancer. However, this listing is applicable to airborne particles of respirable size. Airborne dusts may be formed following further processing (e.g. sanding, drilling) of reacted material.

Component B: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

## SECTION 15 — REGULATORY INFORMATION Continued

### US Federal Information:

**TSCA information:** All ingredients are listed on the TSCA inventory.

**CERCLA Reportable Quantity (RQ) (40 CFR 117.302):** Phenol (1000 lbs.).

### **SARA TITLE III:**

*Sec. 302, Extremely Hazardous Substances, 40 CFR 355:* This product contains an Extremely Hazardous Substance, Phenol.

*Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes:* Immediate (Acute); Delayed (Chronic); Reactivity hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds for extremely hazardous substances are 500 pounds or the individual chemical's threshold planning quantity (TPQ), whichever is lower; and 10,000 pounds for all other hazardous chemicals.

*Sec. 313, Toxic Chemicals Notification, 40 CFR 372:* This material may be subject to SARA notification requirements, since it contains Phenol, a Toxic Chemical constituent above its *de minimus* concentration.

### Canadian Information:

#### **WHMIS Classification:**

**Component A:** **Class D2A** (*Materials Causing Other Toxic Effects, Very Toxic Material*); **Class D2B** (*Materials Causing Other Toxic Effects, Toxic Material*).

**Component B:** **Class D1B** (*Materials Causing Immediate and Serious Toxic Effects, Toxic Material*); **Class D2A** (*Materials Causing Other Toxic Effects, Very Toxic Material*); **Class D2B** (*Materials Causing Other Toxic Effects, Toxic Material*); **Class E** (*Corrosive Material*).

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

**CEPA information:** All ingredients are present on the DSL.

## SECTION 16 — OTHER INFORMATION

### **NFPA Rating:**

0 - Minimal    1 - Slight    2 - Moderate    3 - Serious    4 - Severe  
Health: 3    Flammability: 1    Instability: 1    Special Hazard: None

### **HMIS Rating:**

\* - Chronic hazard    0 - Minimal    1 - Slight    2 - Moderate    3 - Serious    4 - Severe  
Health: \*3    Flammability: 1    Reactivity: 1

**Prepared by:** Powers Fasteners, Inc.

**Telephone No.:** 914-235-6300

**Preparation date:** October 6, 2007

- References:**
1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2007.
  2. International Agency for Research on Cancer Monographs, searched 2007.
  3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2007 (Chempendium and RTECs).
  4. Material Safety Data Sheet from manufacturer.
  5. US EPA Title III List of Lists – January 27, 2005 version.
  6. California Proposition 65 List – June 1, 2007 version.

## SECTION 16 — OTHER INFORMATION Continued

**Legend:** ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Services  
CERCLA: US Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
CFR: US Code of Federal Regulations  
DOT: US Department of Transportation  
DSL: Canadian Domestic Substances List  
EPA: US Environmental Protection Agency  
HMIS: Hazardous Materials Identification System  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
N/Ap: not applicable  
N/Av: not available  
NFPA: National Fire Protection Association  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible Exposure Limit  
RCRA: US Resource Conservation and Recovery Act  
SARA: US Superfund Amendments & Reauthorization Act  
STEL: Short Term Exposure Limit  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Canadian Workplace Hazardous Materials Identification System

### DISCLAIMER OF LIABILITY

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