

Catalog No.: 8034
Reference No.: N/A

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SECTION 1 – Kit / Preparation and Company Identification

- 1.1 MICROVUE OPG** *For Research Use Only – Not for use in diagnostic procedures*
- 1.2** The MicroVue OPG test is an enzyme immunoassay for the quantitative measurement of total osteoprotegerin in plasma, serum, or other experimental sample types. This assay is intended for research use only.
- 1.3 Manufacturer:** Quidel Corporation – 10165 McKellar Court – San Diego, CA 92121
Telephone No.: 1-858-552-1100 **Toll Free No.:** 1-800-874-1517 **Fax No.:** 1-858-453-4338
- 1.4 Emergency No.:** Poison Control @ 1-800-876-4766 (United States only)

SECTION 2 – Composition / Ingredients Information

- 2.1 Description of Components:** Human OPG Standard, Low/High Controls, Coated Strips, Stop Solution, 10X Wash Buffer, Dilution Buffer, Biotin-Labeled Anti-human Osteoprotegerin, Substrate Solution, and Streptavidin-Horseradish Peroxidase Conjugate
- 2.2 Hazardous Ingredients:** Dangerous solid or liquid substances present in >1% (or as required by applicable U.S., Canadian and E.U. regulations):

| CAS# | EINECS | Chemical Name | Kit Component | % Weight | Classification: | | | |
|-----------|-----------|---------------|---------------|----------|-----------------|-------|----|--------------|
| | | | | | US OSHA | WHMIS | EU | Risk Phrases |
| 7664-93-9 | 231-639-5 | Sulfuric Acid | Stop Solution | 1.96% | Irritant | D2B | Xi | R36/37/38 |

See Section 15 and Section 16 – Regulatory Information for additional information on hazard classifications.

Note: Components within this kit (10X Wash Buffer and Dilution Buffer) contain thimerosal as a preservative at concentrations of less than 0.1%.

The preparations contained within this kit at said concentrations are classified as hazardous under U.S. OSHA 29 CFR 1910.1200; E.C. Directive 1999/45/EC; or the Canadian Hazardous Products Act, R.S. 1985, c. H-3.

SECTION 3 – Hazard Identification

Emergency Overview: As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical components within this kit and ensure prompt removal from skin, eyes, and clothing.

- 3.1** Significant health effects are **NOT** anticipated from routine use of this kit when adhering to the instructions listed in the Package Insert provided with the kit.
- 3.2** Contact with the Stop Solution to the eyes and/or skin may cause slight irritation upon prolonged exposure. Avoid prolonged contact with chemical components within this kit.
- 3.3** This kit contains material of human or animal origin and should be considered as potentially capable of transmitting infectious diseases.
- 3.4** All patient and research samples should be handled as potentially infectious. Follow **Universal Precautions** as necessary.
- 3.5 Warning Properties:** Poor

SECTION 4 – First Aid Measures

Special Instructions: No special measures are required.

- 4.1 **Inhalation** Inhalation of any component in this kit is unlikely.
- 4.2 **Eye Contact** Stop Solution may cause slight irritation upon contact. In case of contact with eyes, immediately wash eyes under potable running water for at least 15 minutes, making sure that the eyelids are held open. If pain or irritation occurs, obtain medical attention.
- 4.3 **Skin Contact** Stop Solution may cause slight irritation upon contact. Remove any contaminated clothing and wash affected area with plenty of soap and water. If pain or irritation occurs, obtain medical attention.
- 4.4 **Ingestion** If the Stop Solution is swallowed, wash mouth out with water provided person is conscious. If irritation or discomfort occurs, obtain medical attention.

SECTION 5 – Fire Fighting Measures

- 5.1 **Flammable Properties:** Components within this kit are considered as non-flammable.
- 5.2 **Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, or alcohol-resistant foam.
- 5.3 **Special Fire Fighting Procedures:** This material will not significantly contribute to the intensity of a fire. Use extinguishing material suitable to the surrounding fire. Utilize proper personal protective equipment when responding to any fire. Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Move containers from fire area if it can be done without risk to personnel. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.
- 5.4 **Unusual Fire and Explosion Hazards:** When involved in a fire, this material can decompose and produce irritating fumes and toxic gases (e.g., Carbon monoxide, Carbon dioxide).

Explosion Sensitivity to Mechanical Impact: Not sensitive under normal conditions.

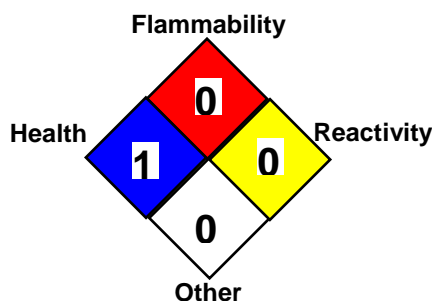
Explosion Sensitivity to Static Discharge: Not sensitive under normal conditions.

5.5 Additional Considerations (Stop Solution):

| | | |
|-------|-------------------------------|-----------------|
| 5.5.1 | Flash Point | Non Combustible |
| 5.5.2 | Auto-ignition Temperature | Not Applicable |
| 5.5.3 | Upper / Lower Explosion Limit | Not Applicable |

5.6 NFPA Ratings (see Section 16 for definitions of numerical ratings):

Stop Solution – Sulfuric acid 1.96%



See Section 16 for Definitions of ratings

***Only trained and competent personnel shall attempt to extinguish a fire. Contact emergency response personnel as required. Be cautious of surrounding materials that may react with the extinguishing media.*

SECTION 6 – Accidental Release Measures

- 6.1 Personal Precautions:** Wear Personal Protective Equipment (PPE) as indicated in Section 8. Avoid physical contact with the Stop Solution. Wash hands thoroughly after handling the components within this kit or patient samples. This kit contains materials of biological origin. Avoid personal contact. Use Universal Precautions when performing the test and during the clean-up process.
- 6.2 Environmental Precautions:** Avoid release of the 10X Wash Solution and Dilution Buffer down industrial and sanitary sewer drains. These components contain a small quantity of Thimerosal (<0.05%) that may potentially have adverse effects on the environment. Contain spills to prevent migration to industrial or sanitary sewer drains.
- 6.3 Spill and Leak Procedures:** Large spills of this kit are unlikely. Utilize safety glasses, nitrile gloves, and lab coat/apron when responding to spills involving the components of this kit. Dispose of in accordance with applicable U.S. Federal, State, or local procedures or appropriate standards of Canada or the EU (see Section 13, Disposal Considerations).

SECTION 7 – Handling and Storage

- 7.1 Handling:** As with all chemicals, avoid getting the components within this kit ON YOU or IN YOU. Wash exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. This kit should be handled only by qualified clinical or laboratory employees trained on the use of this kit and who are familiar with the potential hazards. This kit should be handled as though capable of transmitting infectious diseases. Universal Precautions should be followed when using this kit. **Not for use by the general public.**
- 7.2 Storage:** Keep away from incompatible materials (Section 10). To maintain efficacy, store according to the package insert instructions.
- 7.3 Specific Use:** *For research use only*

SECTION 8 – Exposure Controls and Personal Protection

8.1 Exposure Limits:

| CAS# | Chemical Name | OSHA (PEL) | ACGIH (TLV) | MAK |
|-----------|-------------------------|-----------------------|-----------------------|-----------------------|
| 7664-93-9 | Sulfuric Acid (as mist) | 1.0 mg/m ³ | 1.0 mg/m ³ | 1.0 mg/m ³ |

8.2 Occupational Exposure Controls:

8.2.1 Engineering Controls:

The Stop Solution is aqueous and non-volatile and is not expected to necessitate special ventilation measures. Facilities storing or utilizing these components should be equipped with an eyewash fountain and a safety shower.

8.2.2 Personal Protective Equipment (PPE):

- Respiratory: None needed under normal conditions of use.
- Eye Contact: Safety glasses or face shield are recommended to prevent eye contact.
- Hand Contact: Impervious gloves (nitrile or equivalent) should be worn to prevent hand contact.
- Skin Contact: Lab Coat or similar long sleeved garment should be worn to prevent exposure to skin and contamination of clothing.

SECTION 9 – Physical and Chemical Properties

| Characteristic | Stop Solution (1.96% Sulfuric Acid) |
|------------------------------|--|
| Boiling Point (°C) | Not Available |
| Melting Point (°C) | Not available |
| Specific Gravity | Approximately 1 |
| Vapor Pressure (mm Hg) | Not available |
| Vapor Density (AIR = 1) | Not available |
| Evaporation Rate (Ether = 1) | < 1 |
| pH: | 1.1 |
| Solubility in Water: | Soluble |
| Appearance and Odor: | Clear, Odorless |

SECTION 10 – Stability and Reactivity

| Characteristic | Stop Solution (1.96% Sulfuric Acid) |
|---|---|
| Stability | Stable |
| Conditions to Avoid | Heat |
| Materials to avoid (Incompatibilities) | None Known |
| Hazardous Decomposition or Byproducts | Nature of decomposition of products not known |
| Hazardous Polymerization | Will not occur |

SECTION 11 – Toxicological Information

11.1 Toxicity Data for Hazardous Ingredients: There are currently no toxicity data available for the components of this kit; the following toxicology information is available for raw materials present in greater than 1% concentration.

The following data are available for **Sulfuric Acid (RTECS #: WS5600000)**:

IHL-RAT LC₅₀ 510 mg/m³
 UNR-MAN LDLO 135 mg/kg
 ORL-RAT LD₅₀ 2140 mg/kg
 IHL-MUS LC₅₀ 320 mg/m³
 IHL-GPG LC₅₀ 18 mg/m³

Irritation Data: Eyes Rabbit 0.25mg Remarks: Severe irritation effect
 Eyes Rabbit 5.0 mg / 30 S Remarks: Rinsed

11.2 Routes of Exposure:

Overexposures to components within this kit are not expected. Common routes of exposure may include ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of aerosolized material.

11.3 Potential Effects of Acute Overexposure, by Route of Exposure:

This kit may contain materials of human or animal origin and should be considered as potentially capable of transmitting infectious diseases.

INHALATION: Vapors, mists, sprays, or dusts of this kit may cause irritation to the respiratory tract.

CONTACT WITH SKIN or EYES: Contact may cause eye or skin irritation or burning.

SKIN ABSORPTION: May be harmful if absorbed through the skin.

INGESTION: If any chemical preparation contained within this kit is swallowed, irritation of the mouth, throat, and other tissue of the gastrointestinal system may occur. Individuals with hypersensitivity to mercury containing preparations shall obtain medical attention immediately upon onset of any symptoms.

INJECTION: Accidental injection of any chemical preparation contained within this kit may cause burning, reddening, and swelling in addition to the wound. Symptoms of such exposure can include those described under "Inhalation", "Contact with Skin or Eyes", and "Ingestion".

11.4 Potential Effects of Chronic Exposure:

Long-term skin or eye contact may result in dermatitis or eye irritation.

11.5 Symptoms of Overexposure:

Symptoms of overexposure to the Stop Solution may include general eye, skin, nose, and throat irritation, headache, nausea and vomiting, and potential burns to contacted areas. Symptoms may be delayed for several hours after exposure.

11.6 Medical Exposure Aggravated by Exposure:

Persons with pre-existing skin disorders; eye problems or impaired respiratory system function can be more susceptible to health effects associated with overexposures to the chemical preparations within this kit.

11.7 Carcinogenicity:

| CHEMICAL NAME | RTECS NO. | ACGIH | IARC | NTP | OSHA |
|-------------------------|-----------|----------------|------|-------|--------|
| Sulfuric Acid (as mist) | WS5600000 | A2 - Suspected | 1 | Known | Select |

SECTION 12 – Ecological Information

12.1 Ecotoxicity – Not Available

No adverse effects on the environment are expected from the components of this kit.

12.2 Mobility, Persistence and Degradability

Mobility, persistence and degradation data are not available for the components of this kit.

12.3 Bioaccumulative Potential

There is limited potential for the components within this kit to accumulate in plant or animal systems. The ecological effects have not been thoroughly investigated, but currently none have been identified.

SECTION 13 – Disposal Considerations

Dispose of waste materials, unused components and contaminated packaging in compliance with country (e.g., Canada, EU, etc.) federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information. This product is not considered a RCRA hazardous waste.

SECTION 14 – Transport Information

14.1 U.S. Transportation

This kit qualifies for the small quantity exception under 49 CFR 173.4 and is therefore not regulated per 49 CFR 172.101, the U.S. department of transportation.

Per 49 CFR 173.4, small quantities of Class 8 (corrosive) liquids not exceeding 30 ml per inner receptacle may be exempt from DOT requirements. Specific quantity, packaging and labeling requirements, as described in 49 CFR 173.4 (a), must be met to qualify for this exemption.

14.2 Canadian Transportation

The above-listed DOT basic description applies to this kit under the regulations of Transport Canada.

14.3 International Air Transportation

This kit qualifies as a “Dangerous Good in Excepted Quantity” under the provisions of Section 2.7 of the Dangerous Goods Regulations of the International Air Transportation Association (IATA).

Per Section 2.7 of the Dangerous Goods Regulations, very small quantities of dangerous goods may be excepted from marking, labeling and documentation requirements of the Dangerous Goods Regulations, as long as all the provisions of Section 2.7 are complied with.

SECTION 15 – Regulatory Information

15.1 U.S. Federal and State Regulations:

This preparation is a component of a research use only device.

| Regulatory Reference | Stop Solution |
|------------------------------------|---------------------------|
| 40 CFR 355.30/355.40 - SECTION 302 | 1000 pounds |
| 40 CFR 302.4 – SECTION 304 | 1000 pounds |
| 40 CFR 372.65 – SECTION 313 | Listed (as acid aerosols) |

U.S. SARA SECTION 311/312 FOR KIT:
U.S. TSCA INVENTORY STATUS:
OTHER U.S. FEDERAL REGULATIONS:

Acute health effects; chronic health effects.
 The components of this kit are listed on the TSCA Inventory.
 Not applicable.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):

A component within this kit contains chemicals to the state of California to cause developmental toxicity.

CALIFORNIA – 8 CCR SECTION 339 – DIRECTOR’S LIST OF HAZARDOUS SUBSTANCES:

Sulfuric Acid 7664-93-9 Present

15.2 Label Information

ANSI 129.1 **CAUTION:** Harmful if swallowed, eye and skin irritant. Do not swallow or take internally. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not get into eyes, on skin, or on clothing.

ENVIRONMENTAL HAZARDS:

Do not discharge effluent containing this kit into streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this kit to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

15.3 Canadian Regulations:

CANADIAN DSL/NDL INVENTORY STATUS:

The components of this product are listed on the DSL Inventory.

CANADIAN WHMIS SYMBOLS:

Stop Solution – Sulfuric acid 1.96%



Class D2B

Toxic Material

15.4 HMIS Ratings (See page 9 for Definition of Ratings):


Stop Solution - Sulfuric acid 1.96%

| | |
|-----------------------------|------------|
| Health | 1 * |
| Flammability | 0 |
| Physical Hazard | 0 |
| Protective Equipment | B |

Reference Only

15.5 EU Labeling Classification:

Stop Solution - Sulfuric acid 1.96%

| | | |
|---|----------------------------------|--|
|  | Xi Irritant | <p>Risk Phrases:</p> R 36/37/38: Irritating to eyes, respiratory system and skin. <p>Safety Phrases:</p> S24/25: Avoid contact with skin and eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
|---|----------------------------------|--|

15.6 Japan – Existing and New Chemical Substances (ENCS): Listed

SECTION 16 – Other Information

This MSDS has been prepared in accordance with ANSI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirements of the US OSHA Hazard Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard information and Packaging Regulations, and UN Globally Harmonized System of Classification and Labeling of Chemicals.

The hazard ratings on this MSDS are for appropriately trained workers using the Hazardous Materials Identification System (HMIS®) or a National Fire Protection Association (NFPA) 704 Program. The ratings are estimates and should be treated as such. The hazard rating scales range from (0) minimal hazards to (4) significant hazards or risks (Refer to Definitions of Terms at the end of this MSDS). Chronic (long-term) health effects are indicated in the HMIS by an asterisk (*). HMIS is a registered trade and service mark of the NPCA. For details on HMIS ratings visit www.paint.org/hmis. For details on NFPA 704 visit www.nfpa.org.

PREPARED BY: Quidel Corporation
 10165 McKellar Court
 San Diego, CA 92121
 1-800-874-1517

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A large number of abbreviations and acronyms appear on a MSDS. Some of these, which are commonly used, include the following:

CAS #: This is the Chemical Abstract Service Number that uniquely identifies each compound.

ACGIH - American Conference of Governmental Industrial Hygienists, a professional association that establishes exposure limits.

TLV - Threshold Limit Value - an airborne concentration of a substance that represents conditions under which it is generally believed that nearly all workers can be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour Time Weighted Average (**TWA**), the 15-minute Short Term Exposure Limit, and the instantaneous Ceiling Level (**C**). Skin absorption effects must also be considered.

OSHA - U.S. Occupational Safety and Health Administration

PEL - Permissible Exposure Limit - This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL that was vacated by Court Order.

IDLH - Immediately Dangerous to Life and Health - This level represents a concentration from which one can escape within 30-minutes without suffering escape-preventing or permanent injury.

The DFG - MAK is the Republic of Germany's Maximum Exposure Level, similar to the U.S. PEL. **NIOSH** is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. Occupational Safety and Health Administration (**OSHA**). NIOSH issues exposure guidelines called Recommended Exposure Levels (**RELs**). When no exposure guidelines are established, an entry of **NE** is made for reference. **Protective Equipment - A:** Safety Glasses. **B:** Safety glasses and gloves. **C:** Safety glasses, gloves and body protection. **D:** Splash goggles with face shield, gloves and body protection. **E:** Eye protection, gloves and dust mask respiratory protection. **F:** Eye protection, gloves, body protection and dust mask respiratory protection. **G:** Eye protection, gloves and air purifying respiratory protection.

HAZARD RATINGS:

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: Health Hazard: **0** (minimal acute or chronic exposure hazard); **1** (slight acute or chronic exposure hazard); **2** (moderate acute or significant chronic exposure hazard); **3** (severe acute exposure hazard; onetime overexposure can cause permanent injury and can be fatal); **4** (extreme acute exposure hazard; onetime overexposure can be fatal). * Indicates chronic hazard. Flammability Hazard: **0** (minimal hazard); **1** (materials that require substantial pre-heating before burning); **2** (combustible liquid or solids; liquids with a flash point of 38-93°C [100-200°F]); **3** (Class IB and IC flammable liquids with flash points below 38°C [100°F]); **4** (Class IA flammable liquids with flash points below 23°C [73°F] and boiling points below 38°C [100°F]). Reactivity (Physical) Hazard: **0** (normally stable); **1** (material that can become unstable at elevated temperatures or which can react slightly with water); **2** (materials that are unstable but do not detonate or which can react violently with water); **3** (materials that can detonate when initiated or which can react explosively with water); **4** (materials that can detonate at normal temperatures or pressures).

NATIONAL FIRE PROTECTION ASSOCIATION: Health Hazard: **0** (material that on exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials); **1** (materials that on exposure under fire conditions could cause irritation or minor residual injury); **2** (materials that on intense or continued exposure under fire conditions could cause temporary incapacitation or possible residual injury); **3** (materials that can on short exposure could cause serious temporary or residual injury); **4** (materials that under very short exposure could cause death or major residual injury). Flammability Hazard and Reactivity Hazard: Refer to definitions for "Hazardous Materials Identification System".

FLAMMABILITY LIMITS IN AIR:

Much of the information related to fire and explosion is derived from the National Fire Protection Association (**NFPA**). Flash Point - Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. Autoignition Temperature: The minimum temperature required to initiate combustion in air with no other source of ignition. LEL - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. UEL - the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

TOXICOLOGICAL INFORMATION:

Possible health hazards as derived from human data, animal studies, or from the results of studies with similar compounds are presented. Definitions of some terms used in this section are: **LD₅₀** - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; **LC₅₀** - Lethal Concentration (gases) which kills 50% of the exposed animals; **ppm** concentration expressed in parts of material per million parts of air or water; **mg/m³** concentration expressed in weight of substance per volume of air; **mg/kg** quantity of material, by weight, administered to a test subject, based on their body weight in kg. Other measures of toxicity include **TDLo**, the lowest dose to cause a symptom and **TCLo** the lowest concentration to cause a symptom; **TD₀**, **LDLo**, **LDo**, **TC**, **TC₀**, **LCLo**, and **LCo**, the lowest dose (or concentration) to cause lethal or toxic effects. **BEI** - Biological Exposure Indices, represent the levels of determinants that are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV. Ecological Information: **EC** is the effect concentration in water.

Data from several sources are used to evaluate the cancer-causing potential of the material. The sources and ratings are: **IARC** - the International Agency for Research on Cancer; 1 = Carcinogenic to humans, 2A, 2B = Probably carcinogenic to humans, 3 = Unclassifiable as to carcinogenicity in humans, and 4 = Probably not carcinogenic to humans. **NTP** - the National Toxicology Program; K = Known to be a human carcinogen, and R = Reasonably anticipated to be a human carcinogen. **RTECS** - the Registry of Toxic Effects of Chemical Substances. **OSHA** - Occupational Safety and Health Administration and **CAL/OSHA** - California's subunit of the Occupational Safety and Health Administration; Ca = Carcinogen defined with no further categorization. **ACGIH** - American Conference of Governmental Industrial Hygienists; A1 = Confirmed human carcinogen, A2 = Suspected human carcinogen, A3 = Confirmed animal carcinogen with unknown relevance to humans, A4 = Not classifiable as a human carcinogen, and A5 = Not suspected as a human carcinogen. **NIOSH** - U.S. National Institute for Occupational Safety and Health; Ca = Potential occupational carcinogen, with no further categorization. **EPA** - U.S. Environmental Protection Agency; A = Human carcinogen, B = Probable human carcinogen, C = Possible human carcinogen, D = Not classifiable as to human carcinogenicity, E = Evidence of Non-carcinogenicity for humans, K = Known human carcinogen, L = Likely to produce cancer in humans, CBD = Cannot be determined, NL = Not likely to be carcinogenic in humans, and I = Data are inadequate for an assessment of human carcinogenic potential.

REGULATORY INFORMATION:

This section explains the impact of various laws and regulations on the material. **EPA** is the U.S. Environmental Protection Agency. **WHMIS** is the Canadian Workplace Hazardous Materials Information System. **DOT** and **TC** are the U.S. Department of Transportation and the Transport Canada, respectively.

Superfund Amendments and Reauthorization Act (SARA); the Canadian Domestic/Non-Domestic Substances List (**DSL/NDL**); the U.S. Toxic Substance Control Act (**TSCA**); Marine Pollutant status according to the **DOT**; the Comprehensive Environmental Response, Compensation, and Liability Act (**CERCLA or Superfund**); and various state regulations. This section also includes information on the precautionary warnings that appear on a material's industrial package label.