



# Material Safety Data Sheet

**IPSCO Code Number: IPS-006**

**Original Issue Date: 04/05/04**

**Revised: 08/08/07**

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name: Coated Steel Plate, Redi-Plate™ and DPP Dry Plate Preserver**

**Manufacturer: IPSCO, 650 Warrenville Road, Lisle, Illinois 60532**

**General Information: (630) 810-4737 (8:00 am to 5:00 pm)**

**Off-Hour Emergency Phone Number: (563) 381-5311**

## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	Percentage by wt. **	OSHA PEL <sup>1</sup>	ACGIH TLV <sup>2</sup>
<b>Base Metal</b>				
Iron	7439-89-6	99.8 max	10 mg/m <sup>3</sup> - as iron oxide fume	5.0 mg/m <sup>3</sup> - iron oxide dust and fume, as Fe
Chromium	7440-47-3	3.0	2.5 µg/m <sup>3</sup> /5.0 µg/m <sup>3</sup> (as Cr VI) * 0.5 mg/m <sup>3</sup> (chromium II & III compounds) 1.0 mg/m <sup>3</sup> (chromium metal)	0.5 mg/m <sup>3</sup> - Metal & Cr III compounds 0.05 mg/m <sup>3</sup> - Water Soluble Cr VI compounds 0.01 mg/m <sup>3</sup> - Insoluble Cr VI compounds
Carbon	7440-44-0	1.0	15 mg/m <sup>3</sup> - Total dust (PNOR) <sup>3</sup> 5.0 mg/m <sup>3</sup> - Respirable fraction (PNOR) <sup>3</sup>	10 mg/m <sup>3</sup> - Inhalable fraction (PNOS) <sup>4</sup> 3.0 mg/m <sup>3</sup> - Respirable fraction (PNOS) <sup>4</sup>
Copper	7440-50-8	1.0	0.1 mg/m <sup>3</sup> - Fume (as Cu) 1.0 mg/m <sup>3</sup> - Dusts & mists (as Cu)	0.2 mg/m <sup>3</sup> - fume 1.0 mg/m <sup>3</sup> - dust & mist as Cu
Manganese	7439-96-5	2.2	"C" 5.0 mg/m <sup>3</sup> - Fume & Mn compounds	0.3 mg/m <sup>3</sup> - as Mn
Silicon	7440-21-3	1.0	15 mg/m <sup>3</sup> - Total dust (PNOR) <sup>3</sup> 5 mg/m <sup>3</sup> - Respirable fraction (PNOR) <sup>3</sup>	10 mg/m <sup>3</sup>
Molybdenum	7439-98-7	1.0	5.0 mg/m <sup>3</sup> - Soluble compounds 15 mg.m <sup>3</sup> - Insoluble compounds (total dust, PNOR)	5.0 mg/m <sup>3</sup> - Soluble compounds Respirable fraction 10 mg/m <sup>3</sup> - Metal & Insoluble compounds inhalable fraction 3.0 mg/m <sup>3</sup> - Metal & Insoluble compounds respirable fraction
Nickel	7440-02-0	2.0	1.0 mg/m <sup>3</sup> - Metal, soluble & insoluble compounds (as Ni)	1.5 mg/m <sup>3</sup> - Elemental (as Ni) inhalable fraction 0.1 mg/m <sup>3</sup> - Soluble inorganic compounds inhalable fraction (NOS) <sup>5</sup> 0.2 mg/m <sup>3</sup> - Insoluble inorganic compounds inhalable fraction (NOS) <sup>5</sup>
<b>Paint/Coating ***</b>				
Zinc (Metallic & Oxide forms)	7440-66-6 1314-13-2	≈ 60	5 mg/m <sup>3</sup> - Fume (as ZnO) 15 mg/m <sup>3</sup> - Total dust (as ZnO) 5 mg/m <sup>3</sup> - Respirable fraction (as ZnO)	2 mg/m <sup>3</sup> - Zinc oxide 10 mg/m <sup>3</sup> - Zinc oxide (STEL)
Titanium	13463-67-7	≈ 15	15 mg/m <sup>3</sup> - Total dust (PNOR) (as TiO <sub>2</sub> ) 5 mg/m <sup>3</sup> - Respirable fraction (PNOR) (as TiO <sub>2</sub> )	10 mg/m <sup>3</sup> (as Titanium dioxide)
Kaolin	1332-58-7	≈ 10	15 mg/m <sup>3</sup> - Total dust (PNOR) 5 mg/m <sup>3</sup> - Respirable fraction (PNOR)	2 mg/m <sup>3</sup> (respirable fraction) <sup>4</sup>
Silica, amorphous	60676-86-0	≈ 10	80 mg/m <sup>3</sup> divided by (% SiO <sub>2</sub> )	0.1 mg/m <sup>3</sup> (respirable fraction) <sup>4</sup>

**Notes:**

\* Steel products as provided contain chromium metal in the zero valence state. As such, chromium metal does not present any unusual health hazard. Hence, the most applicable exposure limits relative to chromium in these products are those established for the metal, itself. However, welding, torch cutting, brazing or perhaps grinding of the chromium metal in steel products may generate airborne concentrations of hexavalent chromium, (Cr VI), a confirmed human carcinogen. Therefore, should the user perform any of these tasks, the hexavalent chromium exposure limits would apply.

\*\* All commercial steel products contain small amounts of various elements in addition to those specified. These small quantities frequently referred to as "trace" or "residual" elements, generally originate in the raw materials used. Individual trace elements vary in concentration by weight, and may include aluminum, titanium, vanadium, niobium, tin, sulfur, boron, and phosphorus.

Element weight percents shown represent maximum concentrations possible over all product ranges. These do not represent actual steel specification limits for any IPSCO steel grade produced.

\*\*\* The composition of the coating, as a percentage of the total product weight, is less than one-tenth percent (<0.1%).

- <sup>1</sup> OSHA Permissible Exposure Limits (PELs) are 8-hour TWA (time-weighted average) concentrations unless otherwise noted. A (“C”) designation denotes a Ceiling Limit, which should not be exceeded during any part of the working exposure unless otherwise noted. A Short Term Exposure Limit (STEL) is defined as a 15-minute exposure, which should not be exceeded at any time during a workday.
- <sup>2</sup> Threshold Limit Values (TLV) established by the American Conference of Governmental Industrial Hygienists (ACGIH) are 8-hour TWA concentrations unless otherwise noted.
- <sup>3</sup> PNOR (Particulates Not Otherwise Regulated). All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the PNOR limit which is the same as the inert or nuisance dust limit.
- <sup>4</sup> PNOS (Particulates Not Otherwise Specified). Particulates identified under the PNOS heading are “nuisance dusts” containing no asbestos and <1% crystalline silica. Inhalable fraction - The concentration of inhalable particulate for the application of this TLV is to be determined from the fraction passing a size-selector with the characteristics defined in the ACGIH TLVs and BEIs Appendix D, paragraph A. Respirable fraction - The concentration of respirable dust for the application of this limit is to be determined from the fraction passing a size-selector with the characteristics defined in the ACGIH TLVs and BEIs Appendix D, paragraph C.
- <sup>5</sup> NOS (Not Otherwise Specified)

### Section 3 - Hazards Identification

#### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

This formed solid metal product poses little or no immediate health or fire hazard. When product is subjected to welding, burning, melting, sawing, brazing, grinding, or other similar processes, potentially hazardous airborne particulate and fumes may be generated. These operations should be performed in well-ventilated areas. Avoid inhalation of metal dusts and fumes. If appropriate, respiratory protection and other personal protective equipment should be used.

**Primary Entry Routes:** Inhalation. Steel products in the natural state do not present an inhalation, ingestion or contact hazard. However, operations such as burning, welding, sawing, brazing, machining and grinding may result in the following effects if exposures exceed recommended limits as listed in Section 2.

**Target Organs:** Respiratory system

**Acute Effects:**

- **Inhalation:** Excessive exposure to high concentrations of dust may cause irritation to the eyes, skin and mucous membranes of the upper respiratory tract. Excessive inhalation of fumes of freshly formed metal oxide particles sized below 1.5 microns and usually between 0.02-0.05 microns from many metals can produce an acute reaction known as “metal fume fever”. Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms), metallic taste in the mouth, dryness and irritation of the throat followed by weakness and muscle pain. The symptoms come on in a few hours after excessive exposures and usually last from 12 to 48 hours. Long-term effects from metal fume fever have not been noted. Freshly formed oxide fumes of zinc, manganese and copper have been associated with causing metal fume fever. Inhalation of chromium compounds may cause upper respiratory tract irritation. Sulfur compounds, present in generated fumes, may irritate the gastrointestinal tract. Titanium dioxide, boron oxide, molybdenum, nickel, phosphorus oxide and vanadium compounds, especially vanadium pentoxide, are respiratory tract irritants.
- **Eye:** Excessive exposure to high concentrations of dust may cause irritation to the eyes. Particles of iron or iron compounds, which become imbedded in the eye, may cause rust stains unless removed fairly promptly. Sulfur compounds, present in generated fumes, may irritate the eyes. Vanadium compounds, especially vanadium pentoxide, are eye irritants. Torching or burning operations on steel products with coatings may produce emissions that can be irritating to the eyes.
- **Skin:** Skin contact with dusts may cause physical abrasion, irritation or sensitization, possibly leading to dermatitis. Sulfur compounds, present in generated fumes, may irritate the skin. Molybdenum and vanadium compounds, especially vanadium pentoxide, are skin irritants. Exposure to nickel may cause contact and atopic dermatitis and allergic sensitization. Repeated or prolonged contact with coating may cause skin irritation, dermatitis, ulceration or allergic reactions in sensitized individuals.
- **Ingestion:** Ingestion of harmful amounts of this product as distributed is unlikely due to its solid insoluble form. Ingestion of dust may cause nausea and/or vomiting.

**Chronic Effects:** Chronic inhalation of metallic fumes and dusts are associated with the following conditions:

- **MANGANESE:** Chronic exposure to high concentrations of manganese fumes and dusts may adversely affect the central nervous system with symptoms including languor, sleepiness, weakness, emotional disturbances, spastic gait, mask-like facial expression and paralysis. Animal studies indicate that manganese exposure may increase susceptibility to bacterial and viral infections.
- **CHROMIUM:** The health hazards associated with exposure to chromium are dependent upon its oxidation state. The metal form (chromium as it exists in this product) is of very low toxicity. The hexavalent form is very toxic. Repeated or prolonged exposure to hexavalent chromium compounds may cause respiratory irritation, nosebleed, ulceration and perforation of the nasal septum. Industrial exposure to certain forms of hexavalent chromium has been related to an increased incidence of cancer. The National Toxicology Program (NTP) Fourth Annual report on Carcinogens cites “certain Chromium compounds” as human carcinogens. ACGIH has reviewed the toxicity data and concluded that chromium metal is not classifiable as a human carcinogen.

- **COPPER:** Inhalation of high concentrations of freshly formed oxide fumes and dusts of copper can cause metal fume fever. Chronic inhalation of copper dust has caused, in animals, hemolysis of the red blood cells, deposition of hemofuscin in the liver and pancreas, injury to lung cells and gastrointestinal symptoms.
- **MOLYBDENUM:** Certain handling operations, such as burning and welding, may generate both insoluble molybdenum compounds (metal and molybdenum dioxide) and soluble molybdenum compounds (molybdenum trioxide). Molybdenum compounds generally exhibit a low order of toxicity with the trioxide the more toxic. However, some reports indicate that the dust of the molybdenum metal, molybdenum dioxide and molybdenum trioxide may cause eye, skin, nose and throat irritation in animals.
- **IRON (as Iron Oxide):** Chronic inhalation of excessive concentrations of iron oxide fumes or dusts may result in the development of a benign pneumoconiosis, called siderosis, which is observable as an X-ray change. No physical impairment of lung function has been associated with siderosis. Inhalation of excessive concentrations of ferric oxide may enhance the risk of lung cancer development in workers exposed to pulmonary carcinogens. Iron oxide is listed as a Group 3 (not classifiable) carcinogen by IARC.
- **NICKEL:** Exposure to nickel dusts and fumes can cause sensitization dermatitis, respiratory irritation, asthma, pulmonary fibrosis, edema and may cause nasal or lung cancer in humans. IARC lists nickel and certain nickel compounds as Group 2B carcinogens (sufficient animal data). ACGIH 2001 TLVs® and BEIs® lists insoluble nickel compounds as confirmed human carcinogens.
- **CARBON:** Chronic inhalation of high concentrations to carbon may cause pulmonary disorders.
- **SILICON:** Silicon dusts are a low health risk by inhalation and should be treated as a nuisance dust. Eye contact with pure material can cause particulate irritation. Skin contact with silicon dusts may cause physical abrasion.
- **ZINC (as Zinc Oxide):** Latent liver dysfunction and gastrointestinal disturbances with pressure in the stomach region, nausea, and weakness have been reported from repeated inhalation zinc oxide. Repeated or prolonged skin contact to zinc oxide, coupled with poor personal hygiene, may result in "oxide pox" due to clogging of sebaceous glands. "Oxide pox", especially localized to moist areas, is characterized by small red, hard projecting papules with a central white plug, which develops into a pustule with intense itching. The lesions usually clear within 7-10 days. Repeated or prolonged eye contact with zinc oxide fume may produce conjunctivitis.
- **SILICA (as Amorphous, fused):** May cause irritation of eye, nose, and throat. Prolonged inhalation of silica dust may result in disabling pulmonary disorders, cough, dyspnea, and scarring of lung tissue (silicosis).
- **TITANIUM (as Titanium Dioxide):** Long-term exposure to titanium dioxide dust may result in mild fibrosis (scarring of the lungs).
- **KAOLIN:** May produce chronic pulmonary fibrosis and stomach granuloma.

Long-term inhalation exposure to high concentrations (over-exposure) to pneumoconiotic agents may act synergistically with inhalation of oxides, fumes or dusts of this product to cause toxic effects.

**Carcinogenicity:** IARC, NTP, and OSHA do not list steel products as carcinogens. However, some nickel and chromium compounds are listed as nasal and lung carcinogens by IARC and ACGIH. The International Agency for Research on Cancer (IARC) identifies welding fumes as Group 2B carcinogens, which are possibly carcinogenic to humans. IARC and NTP list hexavalent chromium compounds as Group 1 and ACGIH as A1.

**Medical Conditions Aggravated by Long-Term Exposure:** Individuals with chronic respiratory disorders (i.e., asthma, chronic bronchitis, emphysema, etc.) may be adversely affected by any fume or airborne particulate matter exposure.

**SARA Potential Hazard Categories:** Immediate Acute Health Hazard; Delayed Chronic Health Hazard.

## Section 4 - First Aid Measures

**Inhalation:** For over-exposure to airborne fumes and particulate, remove exposed person to fresh air. If breathing is difficult or has stopped, administer artificial respiration or oxygen as indicated. Metal fume fever may be treated by bed rest, and administering a pain and fever reducing medication. Seek medical attention immediately.

**Eye Contact:** Flush with large amounts of clean water to remove particles. Seek medical attention immediately.

**Skin Contact:** Remove contaminated clothing. Wash affected areas with soap or mild detergent and water. If thermal burn has occurred, flush area with cold water and seek medical attention. Seek medical attention immediately.

**Ingestion:** Not a probable route of industrial exposure. However, if ingested, seek medical attention immediately.

## Section 5 - Fire-Fighting Measures

**Flash Point:** Not Applicable

**LEL:** Not Applicable

**Flash Point Method:** Not Applicable

**UEL:** Not Applicable

**Burning Rate:** Not Applicable

**Auto-ignition Temperature:** Not Applicable

**Flammability Classification:** Non-flammable

**Extinguishing Media:** Not applicable for solid product. Use extinguishers appropriate for surrounding materials. Use water spray, dry chemical, alcohol foam or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool.

**Unusual Fire or Explosion Hazards:** Not applicable for solid product. Material can form explosive and flammable mixtures with air.

**Hazardous Combustion Products:** Thermal decomposition of metal may produce metal oxides/fumes/dust and oxides of sulfur, phosphorous and carbon. The coating on the product may yield noxious gases such as the metal oxides.

**Fire-Fighting Instructions:** Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:** Wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode and full protective clothing.

### Section 6 - Accidental Release Measures

**Spill/Leak Procedures:** Not applicable to steel in solid state. For spills involving finely divided particles, clean-up personnel should be protected against contact with eyes and skin. If material is in a dry state, avoid inhalation of dust. Fine, dry material should be removed by vacuuming or wet sweeping methods to prevent spreading of dust. Avoid using compressed air. Do not release into sewers or waterways. Collect material in appropriate, labeled containers for recovery or disposal in accordance with federal, state, and local regulations.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120) and all other pertinent state and federal requirements.

**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

### Section 7 - Handling and Storage

**Handling Precautions:** Operations with the potential for generating high concentrations of airborne particulates should be evaluated and controlled as necessary. Practice good housekeeping. Avoid breathing metal fumes and/or dust.

**Storage Requirements:** Store away from acids and incompatible materials. Store in cool, well-ventilated areas away from sources of heat and ignition, oxidizing agents, and incompatible materials.

### Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** Use controls as appropriate to minimize exposure to metal fumes and dusts during handling operations.

**Ventilation:** Provide general or local exhaust ventilation systems to minimize airborne concentrations. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Administrative Controls:** Do not use compressed air to clean-up spills.

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen.

**Protective Clothing/Equipment:** For operations which, result in elevating the temperature of the product to or above its melting point or result in the generation of airborne particulates, use protective clothing, gloves and safety glasses to prevent skin and eye contact. Contact lenses should not be worn where industrial exposures to this material are likely. Use safety glasses or goggles as required for welding, burning, sawing, brazing, grinding or machining operations. Protective gloves should be worn as required for welding, burning or handling operations. Wash skin that has been exposed with soap and water or waterless hand cleaner.

### Section 9 - Physical and Chemical Properties

**Physical State:** Solid

**Appearance and Odor:** Grey-black, Odorless

**Odor Threshold:** Not Applicable

**Vapor Pressure:** Not Applicable

**Vapor Density (Air=1):** Not Applicable

**Formula Weight:** No Data Supplied

**Density:** No Data Supplied

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** .275-.282 lb/in<sup>3</sup>

**pH:** Not Applicable

**Water Solubility:** Insoluble

**Other Solubilities:** Not Applicable

**Boiling Point:** 5252° F (approximate)

**Viscosity:** Not applicable

**Refractive Index:** Not Applicable

**Surface Tension:** Not Applicable

**% Volatile:** Not Applicable

**Evaporation Rate:** Not Applicable

**Melting Point:** 2786° F (approximate)

### Section 10 - Stability and Reactivity

**Stability:** Steel products are stable under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization cannot occur.

**Chemical Incompatibilities:** Will react with strong acids to form hydrogen. Iron oxide dusts in contact with calcium hypochlorite evolve oxygen and may cause an explosion.

**Conditions to Avoid:** Storage with strong acids or calcium hypochlorite.

**Hazardous Decomposition Products:** Thermal oxidative decomposition of steel products can produce fumes/dust containing metal oxides, carbon oxides as well as other noxious gases.

**Section 11 - Toxicological Information**

**Eye Effects:**

Eye contact with the individual components may cause particulate irritation. Implantation of iron particles in guinea pig corneas has resulted in rust rings with corneal softening about rust ring.

**Skin Effects:**

Skin contact with the individual components may cause physical abrasion, irritation and dermatitis.

**Toxicity Data:\***

**Acute Inhalation Effects:**

Inhalation of the individual alloy components has been shown to cause various respiratory effects.

**Acute Oral Effects:**

No data available

**Other:** No LC50 or LD50 has been established for the mixture as a whole.

Iron LD50: 30g/kg oral (rat). Manganese LD50: 9g/kg oral (rat). Sulfur LD: >8437 mg/kg oral (rat). Vanadium LD50: 59mg/kg scu (rabbit). Zinc TC<sub>LO</sub>: 124mg/m<sup>3</sup>/50 min. inhalation (human). Copper TD<sub>LO</sub>: 120ug/kg oral (human).

**Chronic Effects:** See section 3

**Carcinogenicity:** Chromium, Nickel

**Mutagenicity:** No Data Available

**Teratogenicity:** No Data Available

- See NIOSH, RTECS: (NO7400000) for additional toxicity data on iron oxide; (OO9275000) for manganese; (WS4250000) for sulfur; (YW2460000) for vanadium pentoxide; (ZG8600000) for zinc; (GL5325000) for copper.

**Section 12 - Ecological Information**

**Ecotoxicity:** No data available for Redi-Plate™ as a whole. However, individual components have been found to be toxic to the environment. Metal dusts may migrate into soil and groundwater and be ingested by wildlife.

**Environmental Fate:** No Data Available

**Environmental Degradation:** No Data available

**Soil Absorption/Mobility:** No data available for Redi-Plate™ as a whole. However, individual components have been found to be absorbed by plants from soil.

**Section 13 - Disposal Considerations**

**Disposal:** This material is considered to be a solid waste, not a hazardous waste. Follow applicable Federal, state, and local regulations for disposal of solid waste and airborne particulates accumulated during handling operations of steel. Do not release into sewers or waterways. Controlled burning for disposal. Contact your supplier or a licensed contractor for detailed recommendations.

**Disposal Regulatory Requirements:** Follow applicable Federal, state, and local regulations.

**Container Cleaning and Disposal:** Follow applicable Federal, state and local regulations. Observe safe handling precautions.

**Section 14 - Transport Information**

**DOT Transportation Data (49 CFR 172.101):**

Redi-Plate™ is Not Listed as a hazardous substance under 49 CFR 172.101

**Shipping Name:** Not Applicable

**Shipping Symbols:** Not Applicable

**Hazard Class:** Not Applicable

**ID No.:** Not Applicable

**Packing Group:** Not Applicable

**Label:** Not Applicable

**Special Provisions (172.102):** None

**Packaging Authorizations**

a) **Exceptions:** None

b) **Non-bulk Packaging:** Not Applicable

c) **Bulk Packaging:** Not Applicable

**Quantity Limitations**

a) **Passenger, Aircraft, or Railcar:** Not Applicable

b) **Cargo Aircraft Only:** Not Applicable

**Vessel Stowage Requirements**

a) **Vessel Stowage:** Not Applicable

b) **Other:** Not Applicable

## Section 15 - Regulatory Information

### Regulatory Information

This product and/or its constituents are subject to the following regulations:

#### OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Tables Z-1& Z-2,): The product as a whole is not listed. However, individual components of the product are listed.

OSHA Specifically Regulated Substance: Not Applicable

#### EPA Regulations:

RCRA: Not Applicable

CERCLA Hazardous Substance (40 CFR 302.4): The product as a whole is not listed. However, individual components of the product are listed: Manganese and Zinc are listed under SARA 302.

SARA 311/312 Codes: Immediate (acute) health hazard and delayed (chronic) health hazard.

SARA 313: Manganese and Zinc are subject to SARA 313 reporting requirements. Please also note that if you prepackage or otherwise redistribute this product to industrial customers, SARA 313 requires that a notice be sent to those customers.

Clean Water Act: Zinc, Copper, Nickel, Chromium

Safe Drinking Water Act: Nickel, Chromium, Iron and Manganese are regulated under this act. The product as a whole is not listed.

**State Regulations:** The product as a whole is not listed in any state regulations. However, individual components of the product are listed in various state regulations.

**Other Regulations:** The product as a whole is not listed in any state regulations. However, individual components of the product are listed in various state regulations.

## Section 16 - Other Information

**Prepared By:** AM Health and Safety, Inc.

**Hazard Rating Systems:** (for solid formed product)

NFPA Code: 0-0-0

HMIS Code: 0-0-0

PPE: See Section 8

Dry film coating thickness of **Redi-Plate™** is 0.6 to 0.8 mils. Dry film coating thickness of **DPP dry plate preserver** is 0.2 to 0.4 mils.

**Disclaimer:** This information is taken from sources or based upon data believed to be reliable. However, IPSCO Steel, Inc and AM Health and Safety, Inc. makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.