SAFETY DATA SHEET

IPCO Stainless Steel Drip Edge, Corners, End Dams, Cavity Bridge, Stone Anchors

1/6/2021

SECTION 1. IDENTIFICATION

Product: 304 Stainless Steel: Drip Edge, Corners, End Dams, Cavity Bridge, Termination Bar, Stone Anchors

Manufacturer: Illinois Products Corporation
423 Joseph Drive
South Elgin, IL 60177,
(847)289-2800

Recommended use: Component of a masonry wall

Emergency telephone: (800)535-5053 (Infotrac)

SECTION 2. HAZARD IDENTIFICATION

Description of hazards:
Dust and fumes may be generated during welding, cutting, or grinding. Long-term over-exposure to air pollutants (in the form of dust or fumes) may cause chronic bronchitis.
A thin coat of evaporating oil is applied to steel during the manufacturing process. Heating and working of the product may cause harmful fumes. Skin irritation could occur with repeated or extended contact with the oil.

SECTION 3. COMPOSITION

Material	CAS #	% weight
Iron (Fe)	7439-89-6	Balance
Nickel (Ni)	7440-02-0	8.0
Chromium (Cr)	7440-47-3	18.2
Manganese (Mn)	7439-96-5	1.16
Silicon (Si)	7440-21-3	0.32
Carbon (C)	7440-44-0	0.025
Phosphorous (P)	7723-14-0	0.022
Nitrogen (N)	7727-37-9	0.06
Sulfur (S)	7704-34-9	0.004

SECTION 4. FIRST AID

Eye contact: flush eyes with water for at least 15 minutes. If irritation persists, seek medical help.
Skin contact: wash affected are with mild soap and water. If skin irritation persists, seek medical help.
Inhalation: remove to fresh air; check for clear airway; if difficulty breathing seek immediate medical help.
Ingestion: occurrence is very rare, but if ingested, seek medical help immediately.

Stainless steel as shipped is not likely to present any acute or chronic health effects. However, heating, melting, grinding, or welding will emit by-products which can cause irritations, difficulty breathing, coughing, or skin reactions. If any of the preceding occurs, seek medical attention immediately.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: non-flammable, will not support combustion
Specific Hazards: N/A
Hazardous Combustion Products: at temperatures above the melting point, fumes containing metal oxides may be liberated.
Special Protective Equipment: Firefighters should wear self-contained, NIOSH approved breathing apparatus and full protective clothing.
Explosion data: N/A

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Not applicable to stainless steel in a solid state.
Environmental Precautions: Not applicable to stainless steel in a solid state.
Methods for Containment: Not applicable to stainless steel in a solid state.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling: Not applicable to stainless steel in solid state.
Conditions for Safe Storage: No special storage conditions are necessary.
Incompatible Products: Keep away from acids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: There are no exposure limits for stainless steel.

Material/Component	CAS #	Exposure Limits OSHA PEL (mg/m³)	ACGIH TLV
Iron (Fe)	7439-89-6	10	5
Nickel (Ni)	7440-02-0	1.0	1.0
Chromium (Cr)	7440-47-3	1.0	0.5
Manganese (Mn)	7439-96-5	5.0	1.0
Silicon (Si)	7440-21-3	none listed	none listed
Carbon (C)	7440-44-0	none listed	none listed
Phosphorous (P)	7723-14-0	.1	.02
Nitrogen (N)	7727-37-9	none listed	none listed

Appropriate Engineering Controls: Provide general or local exhaust to minimize airborne concentrations during heating, milling, grinding, melting, or welding.
Individual Protective Measures: Wear gloves and safety glasses/goggles as required.

Respirator: If concentrations exceed established limits, use NIOSH/MSHA approved particulate respirators (dust and fume) when grinding or welding.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: solid
Odor: not applicable
pH: not applicable
Boiling point: not applicable
Evaporation rate: not applicable
Upper flammable limit %: not applicable
Vapor pressure: not applicable
Relative density: 7.86
Solubility: not soluble
Auto-ignition temp (C˚): not applicable
Viscosity: not applicable

Appearance: silver, gray metallic
Odor threshold: not applicable
Melting point: 1530˚ (2786˚F)
Flash point: not applicable
Flammability: not flammable
Lower flammable limit %: not applicable
Vapor density: not applicable
Specific gravity: no data available
Partition coefficient: no data available
Decomposition temperature: no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity: not determined for a solid
Chemical Stability: stable under normal storage and handling conditions
Possibility of hazardous reactions: hazardous polymerization will not occur
Conditions to avoid: contact with acids will release flammable hydrogen gas
Incompatible materials: yes, strong acids
Hazardous decomposition products: not applicable

SECTION 11. TOXICOLOGICAL INFORMATION

Likely routes of entry: none for stainless in a solid state
Eyes: high concentrations of dust may cause irritation to the eyes
Skin: prolonged skin contact with oil-coated may cause skin irritation with some individual
Inhalation: inhalation of metal particles, dust, or oxide fumes generated during grinding, welding, or burning may cause acute or chronic health effects.
Symptoms related to the physical, chemical, and toxicological characteristics: none for stainless Steel in a solid state.
Effects of acute exposure to –
…Manganese and: inhalation overexposure to manganese may cause metal fume fever characterized by fever and chills, which appear 4 to 6 hours after expo-sure with no long term effects
…Chromium: IARC lists certain chromium compounds under its Group 1 category – confirmed human carcinogens and metallic chromium under its Group 3 category – not classifiable as to carcinogenicity to humans.
…Nickel: may cause skin sensitivity. IARC lists metallic nickel as “possibly carcinogenic to humans”

Mutagenicity of material: N/A
Reproductive effects: N/A
Teratogenicity of material: N/A
Carcinogenicity of material:
Chromium: IARC lists certain hexavalent chromium compounds under its Group 1 category – confirmed human carcinogens, and metallic chromium under Group 3 – not classifiable as to their carcinogenicity to humans.
Nickel: IARC lists metallic nickel in its Group 2B – possibly carcinogenic to humans.
Cobalt: IARC lists cobalt in its Group 2B – possibly carcinogenic to humans.
Synergistic materials: N/A
Aspiration hazard: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: There is no data available for stainless steel in its natural solid state. Some individual components of the material, however, have been found to be toxic to the environment.

COMPONENT	TOXICITY TO FISH	TOXICITY TO ALGAE	TOXICITY TO MICRO-ORGANISMS
Iron	LC50 Common Carp 96hr.0.56 mg/l	-----	-----
Chromium	LC50 Minnow 96hr. 10-100 mg/l	-----	-----
Nickel	LC50 Common Carp 96hr. 1.3 mg/l	EC50 freshwater algae 72hr. 0.18mg/l	EC50 Water Flea 48hr. 1.0mg/l

Persistence: No data available
Degradability: No data available
Mobility: No data available for stainless steel in its natural sold state.
Bioconcentration: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods: Stainless Steel scrap should be recycled whenever possible. Dispose of in accordance of Federal, State, and local regulations.

SECTION 14. TRANSPORT INFORMATION

Stainless Steel is not regulated for shipping.
Shipping Name: N/A
UN number: N/A
Hazard class: N/A
Packing group: N/A

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA: The components of stainless steel are subject to the reporting requirements of sections 302,302, and 313 of Title III of the Superfund Amendments and Reauthorization Act (2006). Since there are no specific threshold planning quantities for the components of this material, the default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs. (4,540 kg) applies, per 40 CFR 370.20.

TSCA inventory status: The components of this material are listed on the Toxic Substances Control Act Inventory.

CERCLA Reportable Quantity: RQ's for hazardous subtances in the Comprehensive Environmental Response, Compensation, and Liability Act are – Chromium 5000 lbs. (2270 kg), Nickel 100 lbs. (45 kg).

California (Proposition 65): The chromium and nickel components of this material are known, In the state of California, to cause cancer.

Canada Regulations

WHMIS Classification: Class D2A/D2B – Materials Causing Other Toxic Effects

Domestic Substances List: The components of this material are on the DSL list.

SECTION 16. OTHER INFORMATION

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Prepared by: Illinois Products Corporation
423 Joseph Drive
South Elgin, IL 60177
(847)289-2800

To the best of our knowledge, the information contained herein is accurate. Neither the above named manufacturer nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.