

101 Clamps

Cold Rolled and Hot Rolled



MATERIAL SAFETY DATA SHEET

PG7501A (REV. 00-05)

PRODUCT

CARBON STEEL & HSLA STEEL

Manufacturer Stelco Inc. Stelco Tower 100 King Street W., P.O. Box 2030, Hamilton, Ontario, Canada L8N 3T1 Telephone (905) 527-8335 Ext. 4388..... (For updates) Emergency (905) 527-8335 Ext. 2268	Supplier
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SECTION I - MATERIAL IDENTIFICATION AND USE

Material Name Carbon Steel and High Strength Low Alloy (HSLA) Steel	Chemical Family Steel	WHMIS Class D2A
Chemical Name Not Applicable	Trade Name and Synonyms Not Applicable	Chemical Formula Not Applicable
Molecular Weight Not Applicable		Material Use Production of Steel Products

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

ELEMENT	% MAXIMUM	C.A.S. NO.	T.L.V. (A.C.G.I.H.) mg/m ³ (as fume)	P.E.L. (OSHA) mg/m ³ (as fume)	LD ₅₀ /LC ₅₀
STEEL:					
Iron	>99.00	7439-89-6	5	10	30 g/kg (LD ₅₀ Oral Rat)
Manganese	1.81	7439-96-5	0.2	5 (C)	9 g/kg (LD ₅₀ Oral Rat)
Nickel	0.50	7440-02-0	1	1	Not Available
Chromium	0.60	7440-47-3	0.5	0.5	Not Available

NOTE: THE ABOVE INGREDIENT LIST IDENTIFIES THOSE COMPONENTS WHICH MEET THE REGULATED REPORTING CRITERIA. CONCENTRATIONS REPRESENT A MAXIMUM FOR ALL THE GRADES WITHIN A CATEGORY OF STEEL PRODUCTS AND MUST NOT BE INTERPRETED AS A SPECIFICATION FOR A PARTICULAR GRADE. ALL INGREDIENTS ARE PRE-REGISTERED ON THE CEPA DOMESTIC SUBSTANCES LIST.

COATING: May have oil coating (max 2.2 g/m² per side) or mill applied lubricant (max 6.5 g/m² per side).

SECTION III - PHYSICAL DATA FOR SITE

Physical State Solid	Odour and Appearance Silver / Grey Metallic (steel)	Odour Threshold Not Applicable	Specific Gravity 7.6 - 7.8
Vapour Pressure (mm) Not Applicable	Vapour Density (Air = 1) Not Applicable	Evaporation Rate Not Applicable	Boiling Point (°C) Not Applicable
Solubility in Water (20°C) Not Applicable	% Volatile (by volume) Not Applicable	pH Not Applicable	Freezing / Melting Point (°C) 1530°C (steel)
			Coefficient of water / oil distribution Not Applicable

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability Not Flammable	Means of Extinction Not Applicable	Special Procedures Not Applicable
Flashpoint (°C) and Method Not Applicable	Upper explosion limit (% by volume) Not Applicable	Lower explosion limit (% by volume) Not Applicable
Auto Ignition Temperature (°C) Not Applicable		Hazardous Combustion Products Not Applicable
Explosion Data - Sensitivity to Chemical Impact Not Applicable	Rate Of Burning Not Applicable	Sensitivity to Static Discharge Not Applicable

REMARQUE: Cette Fiche Signalétique est également disponible en français.
 NOTE: This Material Safety Data Sheet is also available in French.

SEE REVERSE

PC7501B (REV. 00-05)

CARBON STEEL & HSLA STEEL

SECTION V - REACTIVITY DATA

Chemical Stability	Incompatibility to other substances Not Applicable	Reactivity and under what conditions Contact with mineral acids will release hydrogen gas.
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Hazardous Decomposition Products
Thermal degradation of coating material (if any) may produce irritating hydrocarbons.

SECTION VI - TOXICOLOGICAL PROPERTIES OF PRODUCT

Effect of Acute Exposure to Product
Welding or burning of material will generate metal fumes. Inhalation overexposure to fumes may cause a flu-like condition (e.g. chills, nausea) called metal fume fever.
Eye irritation may result from contact with coating.

Effects of Chronic Exposure to Product
Welding, burning, or grinding will generate metal fume or dust. Prolonged inhalation overexposure to dust or fume may result in the accumulation of iron oxide in the lung, a condition (siderosis) with few or no symptoms.
Certain nickel and chromium compounds have been listed by IARC as nasal and lung carcinogens.
Coating materials may cause skin irritation and/or dermatitis upon prolonged contact.

Sensitization to Product No known effect	Synergistic Materials No known effect	Mutagenicity No known effect
Reproductive effects No known effect	Teratogenicity No known effect	

SECTION VII - PREVENTATIVE MEASURES

Personal Protective Equipment
Personal protective equipment required is dependent upon the process or operation being performed on the material (e.g. burning, welding).
Each operation must be addressed for suitable protective equipment required.

Leather faced or equivalent Footwear (Specify) Safety shoes or boots where required	Respiratory NIOSH approved respiratory protection where applicable	Eye (Specify) Safety glasses or face shield as appropriate Other (Specify) Barrier cream may be used when handling
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Engineering Controls (e.g. ventilation, enclosed process, specify) General or local ventilation during welding, burning or grinding.	Leak and Spill Procedure Not Applicable	Waste Disposal Not Applicable	TOG Classification Not Regulated
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SECTION VIII - FIRST AID MEASURES

Skin
Wash affected area with soap and water. Seek medical attention if irritation persists.

Eye
For irritation from any coating material, flush eyes with plenty of water while holding eyelids open. Seek medical attention if irritation persists.

Inhalation
For overexposure to metal fumes, remove to fresh air. Seek medical attention for adverse symptoms.

Ingestion
Not Applicable

SECTION IX - PREPARATION DATE OF MSDS

Prepared by Safety, Hygiene & Environment	Phone Number (905) 527-8335 Ext. 2547 Date September 2000
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