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## Material Safety Data Sheet

### SECTION 1 - MATERIAL IDENTIFICATION AND USE

**Material Name: Steel Tubing**  
**WHMIS Class: D2A**  
**Chemical Name: Not Applicable**  
**Chemical Family: Steel**  
**Chemical Formula: Not Applicable**  
**Molecular Weight: Not Applicable**  
**Trade Name and Synonyms: Not Applicable**  
**Material Use: Several uses ranging from oem products to construction and fabrication**

### SECTION 2 - HAZARDOUS INGREDIENTS OF MATERIAL

ELEMENT	% MAXIMUM	C.A.S. NO.	TL.V. (A.C.G.I.H.) mg/m <sup>3</sup> (as fume)	P.E.L. (OSHA) mg/m <sup>3</sup> (as fume)	LD <sub>50</sub> /LC <sub>50</sub>
<b>STEEL:</b>					
Iron	>99.00	7439-89-6	5	10	30 g/kg (LD <sub>50</sub> Oral Rat)
Manganese	1.18	7439-96-5	0.2	5 (C)	9 g/kg (LD <sub>50</sub> Oral Rat)
Nickel	0.5	7440-02-0	1.5 (I)	1	Not Available
Chromium	0.60	7440-47-3	0.5	1	Not Available

The above ingredient list identifies those components which meet the regulated reporting criteria. Concentrations represent a maximum for all 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. All C.O.N.E.G. substances are below the detection limit.

*\*Tube may contain coating of mill coolant/rust inhibitor - see appropriate MSDS for details\**

### SECTION 3 - PHYSICAL DATA

Physical State Solid	Odour and Appearance Silver / Grey Metallic (steel)	Odour Threshold Not Applicable	Specific Gravity 7.6 - 7.8
Vapour Pressure Not Applicable	Vapour Density (Air - 1) Not Applicable	Evaporation Rate Not Applicable	Boiling Point (C) Not Applicable
Solubility in Water 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 4 - FIRE AND EXPLOSION HAZARD

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 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

## SECTION 5 - REACTIVITY DATA

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

## SECTION 6 - TOXOLOGICAL PROPERTIES

**Effect of Acute Exposure**  
Steel in it's natural state has no acute effect from exposure. Eye irritation may result from contact with coating. 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.

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

Sensitization to Product <b>No known effect</b>	Synergistic Materials <b>No known effect</b>	
Reproductive effects <b>No known effect</b>	Teratogenicity <b>No known effect</b>	Mutagenicity <b>No known effect</b>

## SECTION 7 - PREVENTATIVE MEASURES

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

**Gloves**  
Gloves may be required to prevent skin abrasions, cuts or punctures

**Eye (Specify)**  
Safety glasses or faceshield as appropriate

**Footwear (Specify)**  
Safety Shoes or boots where required

**Other (Specify)**  
Barrier cream may be used when handling

**Respiratory**  
NIOSH approved respiratory protection where applicable

**Engineering Controls (e.g. ventilation, enclosed process, specify)**  
General or local ventilation during welding, burning or grinding.

**Leak and Spill Procedures**  
Not Applicable

**Waste Disposal**  
Not Applicable

**TDG Classification**  
Not Applicable

## SECTION 8 - 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 9 - PREPARER INFORMATION

Prepared By: Atlas Tube Health and Safety Department

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