

SAFETY DATA SHEET

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Prepared by: JE Compliance Service, Inc.	Revised by:	JE Compliance Service, Inc.
Issue date: 15 September 2006	Revision date:	5 September 2014

PRODUCT NAME: Steel Tubing

Section 1 – Chemical Product and Company Identification

Western Tube and Conduit Corporation
2001 East Dominguez Street
Long Beach, California 90810 USA

Emergency Telephone:

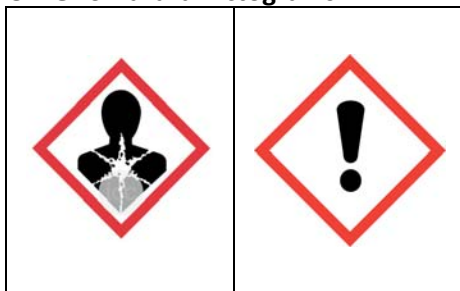
- **Emergencies:**
 - 1.310.537.6300 (US, Canada, and North American Numbering Plan-NANP).
 - *Country of call origin exit code* + 1.310.537.6300 (Outside of US, Canada, and NANP).

Product name: Steel Tubing.

Typical uses: fabrication of furniture, sports equipment, kiosks and other frameworks.

Section 2 – Hazard Identification

UN GHS Hazard Pictograms



Possible primary routes of entry: eye contact, inhalation of fumes during machining operations.

Signs and symptoms of exposure: mucous membrane, skin and eye irritation.

Carcinogenicity: this product contains chemicals known to the State of California to cause cancer, birth defects, or reproductive harm (California Proposition 65).

Physical hazards: stable under normal conditions.

Health hazards: irritant; eye, and respiratory hazards.

Medical conditions generally aggravated by exposure: none unless excessive, repeat exposure. See **Section 4 – First Aid Measures** and **Section 8 – Exposure Controls and Personal Protection**.



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The following health and physical hazard classes apply:

- Acute toxicity, category 0.
- Flammable solid, category 0.
- Eye irritation, category 1.
- Digestive irritation, category 0.
- Respiratory irritation, category 1.
- Skin irritant, category 0.

CHIP Phrases

Standard EU CHIP phrases provided are unique to this product and its components.

Risk CHIP phrases

- Toxic by inhalation and if swallowed (R23/25).
- Irritating to eyes and skin (R36/38).
- Irritating to eyes, respiratory system and skin (R36/37/38).

Safety CHIP phrases

- Avoid contact with skin and eyes (S24/25).
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26).
- Wear suitable protective clothing (S36).
- Wear suitable protective clothing and gloves (S36/37).
- Wear suitable protective clothing, gloves and eye/face protection (S36/37/39).
- In case of accident or if you feel unwell, seek medical advice immediately (S45).

Note: Risk phrases applicable only during machining, cutting, drilling, grinding or other related processing operations that result in the disturbance or alteration of the metal or coatings; solid, unmodified tubing presents minimal health risks.



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Section 3 – Composition and Hazard Information about Ingredients

Ingredient	CAS#	Approx Weight % Content	CHIP Phrases	Exposure Limit OSHA (type)	LC50	Lethal Dose (LD)**
Iron	7439-89-6	98-99	R36/38*, S26, S36/37	10 mg/m ³ (TWA) 5 mg/m ³ (fume)	NA	LD50: 30 g/kg (rat, oral) LDLO: 20 mg/kg (rabbit, intraperitoneal)
Manganese	7439-96-5	0.45-0.85	R23/25*, R36/38*, S36, S45, S36/37/39	5 mg/m ³ (TWA ceiling) 0.2 mg/m ³ (ACGIH, TLV)	NA	LD50: 9,000 mg/kg (rat, oral) LDLO: 400 mg/kg, 1Y-1:ETA (rat, intramuscular)
Carbon	7440-44-0	0.1-0.7	R36/37/38*, S24/25, S36/37	10 mg/m ³ (inhalable)	NA	LD50: 440 mg.kg (mouse, intravenous) LDLO: 167 mg/kg, 8D preg: REP (rat, subcutaneous)
Silicon	7440-21-3	0.2	R11*, S26, S36	10 mg/m ³ (ACGIH, TLV) 15 mg/m ³ (TWA total)	NA	LD50: 3,160 mg/kg (rat)

*Risk phrases applicable only during machining, cutting, drilling, grinding or other related processing operations that result in the disturbance or alteration of the metal or coatings; solid, unmodified tubing presents minimal health risks.

**LDLO; is the lowest dosage per unit of bodyweight of a substance known to have resulted in death in a group of test animals.

**LD50; the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals



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Section 4 – First Aid Measures

- Eye contact: if the material contacts the eyes:
 - Wipe away any excess material around the eyes.
 - Immediately flush the affected eye(s) with cold, gently flowing water for a minimum of 15 minutes while holding the eyelid(s) open. Obtain medical attention if irritation persists, or if particles are lodged in surface of the eye(s). Take special care if the exposed person is wearing contact lenses.
- Skin contact: gently brush away excess material. During machining operations sharp edges may be created which presents an abrasion hazard. If abrasions do occur seek medical attention.
- Inhalation: if dust is inhaled:
 - Move immediately to an area with fresh air.
 - Pre-existing diseases of the upper respiratory tract and lungs such as bronchitis, emphysema, and asthma may be aggravated by exposure to dust.
 - If symptoms of exposure develop seek medical attention
- Ingestion:
 - DO NOT induce vomiting.
 - Unlikely under normal conditions of use, but swallowing may result in abdominal discomfort.
 - If ingested, seek medical attention.

Section 5 – Fire Fighting Procedures

- Auto-ignition temperature: not applicable to solid tube.
- Flammability: solid tube is non-flammable.
 - Silicon is highly flammable when in fine powder form, but unlikely to be present even during machining operations.
- Flash point: not applicable to solid tube.
- Products of combustion: metal oxides, alloy elements, and oxides of carbon and nitrogen.
- Extinguishing media: not applicable for the solid product. Use appropriate extinguishers for surrounding material.
- Fire fighting procedures: do not release runoff from fire control methods to sewers or waterways. Wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode and full protective clothing.

Section 6 – Accidental Release Measures

Not applicable.

Section 7 – Handling and Storage

- Storage: store away from acids and other incompatible materials.



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- Routine handling & use: Avoid breathing metal fumes or dust generated during machining operations. Practice good housekeeping.

Section 8 – Exposure Controls and Personal Protection

- Exposure limits: see **Section 3 – Composition and Hazard Information about Ingredients.**
- Machining operations such as burning, welding, sawing, brazing, machining, and grinding may cause health effects if exposures exceed recommended limits as listed under **Section 3 – Composition and Hazard Information about Ingredients.**
- Respiratory protection: use a NIOSH/OSHA approved dust mask if dust is generated during machining operations or otherwise present in concentrations above the Permissible Exposure Limit (PEL) for nuisance particulates. Excessive inhalation to fumes of metal oxide particles can produce an acute reaction known as “metal fume fever”. Symptoms consist of chills and fever, metallic taste in the mouth, dryness and irritation of the throat followed by weakness and muscle pain. Oxide fumes of manganese and copper have been associated with causing metal fume fever. Chronic inhalation of excessive concentrations of metal fumes may result in pneumoconiosis, pulmonary disorders, respiratory irritation, asthma, nosebleed, and ulceration of the nasal septum, as well as respiratory cancer.
- Protective gloves: work gloves are recommended during machining operations. Skin exposure to steel tubing in itself is not expected to present any significant hazards.
- Eye protection: excessive exposure to high concentrations of dust may cause irritation to the eyes. Particles of iron compounds may become imbedded in the eye and cause rust stains unless removed promptly. Use safety glasses or goggles as required for machining operations.

Section 9 – Physical and Chemical Properties

- Solid, odorless metal with a metallic gray color.

MATERIAL:	Iron
BOILING POINT:	2,862°C (5,184°F)
SPECIFIC GRAVITY (H2O = 1):	7.85 at 4°C
MELTING POINT:	1,538°C (2,800°F)
FREEZING POINT:	1,538°C (2,800°F)
VAPOR PRESSURE (mm Hg):	not applicable
VAPOR DENSITY (AIR = 1):	not applicable
SOLUBILITY IN H2O, % BY	insoluble
% VOLATILES BY VOLUME:	not applicable
APPEARANCE AND ODOR:	gray, odorless
DENSITY @ 20°C:	not applicable



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Section 10 - Stability and Reactivity

- Stability: stable.
- Incompatibility: may be incompatible with strong acids.
- Reactivity: may react with strong acids to form hydrogen. Iron oxide dusts in contact with calcium hypochlorite evolve oxygen and may cause an explosion.
- Hazardous reaction/decomposition products: burning of base metal produces oxides of iron, manganese, chromium and other alloying elements. Burning of coatings may produce zinc oxide fumes, zinc chloride fumes, acrid smoke, and irritating fumes. May release chlorine and fluorine containing gases when burned.

Section 11 – Toxicological Information

Acute exposure: during machining, cutting, drilling, grinding or other related processing operations that result in the disturbance or alteration of the metal or coatings the following may occur; mild eye, skin, ingestion, and inhalation irritation.

- Eyes: symptoms include redness and epiphora.
- Skin: symptoms include redness, sensitization, and irritation.
- Ingestion: symptoms may include, but are not limited to, thirst, abdominal pain, gastroenteritis, and inflammation of the digestive tract.
- Inhalation: symptoms include, but are not limited to, coughing, sneezing, wheezing and shortness of breath.

Chronic exposure: potential irritant for skin sensitization, inhalation toxicity and ingestion toxicity. Persons with pre-existing conditions will have increased sensitivity.

- Skin: repeated or prolonged skin contact may cause irritation, dryness or cracking of the skin.
- Inhalation and ingestion: chronic toxicity occurs within 4 to 10 days following ingestion of large quantities. Repeated or prolonged inhalation or ingestion may cause metabolic abnormalities and sodium retention. Metabolic abnormalities include acidosis, hypernatremia, hypochloremia, alkalosis, hypocalcaemia, or sodium retention may affect the blood, kidneys, respiration, and cardiovascular system. Severe toxicity may affect the behavior/central nervous system. Neurological changes may result in metabolic abnormalities that may include, but are not limited to, fatigue, irritability, dizziness, mental confusion, paresthesia, seizures, tetany, and cerebral edema.

International Agency for Research on Cancer (IARC): not reviewed.

American Conference of Industrial Hygienists (ACGIH): not carcinogenic.

Reproductive toxicity: not available.

Teratogenicity: not established.

Embryotoxicity: not available.

Mutagenicity: not available.



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California Proposition 65:

WARNING: This product contains chemicals known by the State of California to cause cancer, birth defects, or other reproductive harm.

Section 12 – Ecological Information

- Do not release into the ocean, waterways, wastewater or groundwater.

Section 13 – Disposal Considerations

- Waste must be disposed of in accordance with federal, state, and local regulations. Any processing, alteration, chemical additions to, or contamination of this product may alter the disposal requirements.

Section 14 – Transport Information

- UN number: not applicable.
- Not a United States Department of Transportation (USDOT) regulated hazardous material (49 CFR 172).
- Not an International Maritime Dangerous Goods (IMDG) regulated dangerous good.
- Not an International Air Transport Association (IATA) regulated dangerous good.
- Not regulated under Canada Transportation of Dangerous Goods requirements.
- Not regulated under the UNECE European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN 2013).
- Not regulated under the OTIF Regulations concerning the International Carriage of Dangerous Goods by Rail (RID 2013).
- Not regulated under the Australian Dangerous Goods Code (ADG7).

Section 15 – Regulatory Information

- SARA Section 313 Notification: Contains no listed substances present above the de minimis concentrations listed in 40 CFR 372 (2013). Please contact Western Tube & Conduit for an update prior to completing any EPCRA report.
- The components of this product are not regulated under the UK Control of Substances Hazardous to Health (COSHH) and none of the identified components have established workplace exposure limits.
- 49 CFR 171 reportable quantity: none listed.
- 40 CFR 355 reportable quantity: none listed.
- VOC content, material: 0.
- VOC content, less water: 0.



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- Clean air act ozone depleter: none listed.

Section 16 – Other Information/Disclaimer

- US NFPA Standard 704 Rating (iron). Health=0; Fire=1; Reactivity=1.



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