



Valex - Safety Data Sheet (SDS)

Issue Date: December 1, 2013

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Stainless Steel Tubing and Fittings
Synonyms: Stainless Tube, CFOS, HP and/or UHP Tube
Manufacturer Phone: 805-658-0944
Manufacturer Website: www.valex.com

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient	CAS #	% Weight	Occupational Exposure Limits (mg/m ³)	
			OSHA PEL	ACGIH TLV
Iron (Fe)	7439-89-6	Balance	10 (oxide, dust, & fume)	10 (oxide, dust, & fume)
*Chromium (Cr)	7440-47-3	16-20	1.0	0.5
*Nickel (Ni)	7440-02-0	8-16	1.0	1.0
*Manganese (Mn)	7439-96-5	0-2	5.0 (fume)	0.2
Molybdenum (Mo)	7439-98-7	2-3	15 (total dust)	15 (insoluble)
Silicon (Si)	7440-21-3	0-1	15 (dust)	10 (inhaled dust)
Carbon (C)	7440-44-0	0-0.08	15 (total dust)	2
Sulfur (S)	7704-34-9	0-.030	13	5
*Phosphorus (P)	7723-14-0	0-.045	0.1	0.1

Note: * SARA Title III section 313 Toxic Chemical. (See section 15).

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Stainless steel products in their usual physical state do not present a contact, inhalation or ingestion toxic health hazard. Any processing including; welding, grinding, burning, sawing etc. may release potentially hazardous fumes or dusts. Provide proper ventilation during any of these process. Dusts may also be irritating to the unprotected skin or eyes.

ACUTE EFFECTS:

Excessive exposure to dusts or fumes may cause irritation of eyes, nose, or throat. Inhalation of dusts or fumes may result in metal fume fever (metallic taste in mouth, dryness and irritation of throat, chills, and fever).

CHRONIC EFFECTS:

Prolonged inhalation of fumes or dusts may cause a variety of adverse health effects to the respiratory system, including, but not necessarily limited to, lesions of the mucous membrane, bronchitis, pneumonia, and cancers of the nasal cavity and respiratory tract.

POTENTIAL HEALTH EFFECTS/MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Any pre-existing chronic respiratory condition, i.e., asthma, chronic bronchitis, or emphysema.

ROUTES OF ENTRY:

Inhalation (dusts/fumes), contact with skin and eyes (dusts/fumes), ingestion (dusts).

SECTION 4 - FIRST AID MEASURES**INHALATION:**

Immediately remove victim to fresh air. If discomfort persists, consult physician.

EYE CONTACT:

Immediately flush eyes with water for 20 minutes. Consult physician.

SKIN CONTACT:

If irritation develops, remove clothing and wash skin with soap and water. If irritation persists, consult physician.

INGESTION:

Consult physician.

SECTION 5 - FIRE FIGHTING MEASURES**FLASH POINT:**

Nonflammable.

SPECIAL FIRE FIGHTING INSTRUCTIONS AND EQUIPMENT:

None required.

FLAMMABLE LIMITS:

Nonflammable.

EXTINGUISHING MEDIA:

Use what is appropriate for surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS:

None.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None known.

SECTION 6 - ACCIDENTAL RELEASE MEASURES**CLEAN UP PROCEDURES:**

No special procedures needed.

SPECIALIZED EQUIPMENT:

None.

SECTION 7 - HANDLING AND STORAGE**PRECAUTIONS TO BE TAKEN IN HANDLING:**

Minimize activities which may generate dusts, vapors, or fumes. Keep areas well ventilated. Use suitable equipment to move materials.

PRECAUTIONS TO BE TAKEN IN STORAGE:

None required.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**RESPIRATORY PROTECTION:**

Wear NIOSH approved dust/fume respirator when welding, burning, polishing or grinding this metal.

EYE/FACE PROTECTION:

Face shields (when welding or burning), safety glasses (when cutting or grinding).

OTHER PROTECTIVE EQUIPMENT:

Use appropriate protective clothing, such as welding aprons and gloves when welding or burning.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<u>APPEARANCE:</u>	<u>ODOR:</u>
Metal	Odorless
<u>PHYSICAL STATE:</u>	<u>SOLUBILITY IN WATER :</u>
Solid	Insoluble
<u>VAPOR PRESSURE:</u>	<u>SPECIFIC GRAVITY (H₂O=1):</u>
N/A	8.0
<u>BOILING POINT (C) :</u>	
N/A	

SECTION 10 - STABILITY AND REACTIVITYSTABILITY:

Stable under normal storage conditions.

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS TO AVOID:

None.

HAZARDOUS DECOMPOSITION PRODUCTS:

None.

MATERIALS TO AVOID:

Strong acids (such as highly concentrated Sulfuric, Hydrochloric, or Nitric).

SECTION 11 - TOXICOLOGICAL INFORMATIONLETHAL CONCENTRATION (LC50) :

None established.

REPRODUCTIVE EFFECTS:

No. Note: Hexavalent chrome may be released while welding, burning or cutting this metal. Hexavalent chrome is a listed for reproductive toxicity per California Prop. 65, The Safe Drinking Water and Toxic Enforcement Act of 1986

LETHAL DOSE (LD50) :

N/A

CARCINOGENIC BY NTP, IARC, OR OSHA?:

No. Note: Hexavalent chrome and nickel fumes may be released while welding, burning or cutting this metal. Both materials are listed as carcinogens

SECTION 12 - ECOLOGICAL INFORMATION

No adverse ecological effects are expected.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recycle scrap materials through scrap dealers and brokers or otherwise in accordance with local, state, and federal regulations.

SECTION 14 - TRANSPORT INFORMATION

Secure material to prevent movement during transporting.

SECTION 15 - REGULATORY INFORMATION

SARA: Some components of this product are classified as toxic by the EPA in 40 CFR 372.65 and subject to reporting requirements of SARA Title III Section 313 and 40 CFR 372.45.

SECTION 16 - OTHER INFORMATION

Take appropriate precautions when moving or shipping this material to prevent injury to personnel handling it.

DISCLAIMER:

Information included in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness. The conditions or methods in which the customer handles, stores, uses, and disposes of this product are beyond the control and knowledge of the manufacturer. Valex receives the tubing in its solid state and does not change the chemical makeup of the tubing during our process. Therefore, Valex assumes no responsibility for adverse effects which may occur in the use or misuse of this product and expressly disclaims liability for loss, damage, and expense arising out of, or in any way connected with, the handling, storage, use and disposal of this product.

End of SDS

This SDS Supersedes all previous SDSs