

SAFETY DATA SHEET

ISSUE DATE: 6/10/2009

REVISED DATE: 02/05/16

Supersedes: Any Previous M.S.D.S. On This Product

EMERGENCY PHONE NUMBER: INFOTRAC (800)-535-5053

I. IDENTIFICATION

PRODUCT NAME: Elgen Galvanized Steel Products
PRODUCT CLASS: Steel

Elgen Manufacturing Company, INC.
10 Railroad Ave.
Closter, NJ 07624

II. HAZARDOUS INGREDIENTS

<u>MATERIAL:</u>	<u>CAS</u>	<u>% WEIGHT</u>	<u>OSHA PEL (mg/m3)</u>	<u>ACGIH TLV (mg/m3)</u>
Iron	7439-89-6	94.00 – 99.66	10 (oxide fume)	5 (oxide fume)
Zinc	7440-66-6	1.00-4.50	15 (oxide dust)	15 (oxide dust)
Aluminum	7429-90-5	.00-.4	15 (dust)	10 (dust)
Antimony	7440-36-0	<.9	0.5	0.5
Arsenic	7440-38-2	<.09	.01	.01
Beryllium	7440-41-7	<.09	.002	.002
Boron	7440-42-8	<.9	15	10
Cadmium	7440-43-9	<.09	.005	.01
Calcium	1305-78-8	<.9	5	2
Carbon	7440-44-0	.04-1.0	15	10
Chromium*	7440-47-3	0.01-1.5	0.5	0.06
Cobalt	7440-48-4	<.09	.1	.02
Manganese	7439-96-5	0.05-2.0	5 (dust) 5 (fume)	5 (dust) 1 (fume)
Phosphorous	8049-19-2	.001-.020	15	10
Molybdenum	7439-98-7	0.00-.010	15	10
Nickel	7440-02-0	0.01-.30	1	1
Silicon	7440-21-3	.015-.220	15	10
Sulfur	7704-34-9	.001-.020	15	10

This product contains the following ingredient at levels subject to reporting requirements of:

SARA 313 (40CFR372): Manganese, Chromium Nickel

OSHA HAZAR ADOUS CO MMUNICATIONS STAN DARD, (29CFR1910.1200): Manganese, Chromium, Nick el, Silicon, A luminum metallic powder

CALIFORNIA PROPOSITION 65: This product contains the following trace amounts of chemicals known to the state of California to be a cancer hazard: Nickel

III. PHYSICAL DATA

APPEARANCE: Metallic Color

BOILING POINT: N/A

SPECIFIC GRAVITY: 8 g/cm³

SOLUBILITY IN WATER: Not Soluble

SOFTENING POINT Of Zing Coating: 850°F

MELTING POINT OF BASE METAL: 2750°F

IV. HEALTH HAZARD DATA

ROUTE OF EXPOSURE: Inhalation, skin, eye, ingestion.

EFFECTS OF OVEREXPOSURE:

Effects: Chronic inhalation concentrations of iron oxide fumes or dusts may lead to a benign pneumoconiosis (siderosis). Inhalation of high concentrations of ferric oxide may possibly enhance the risk of lung cancer development in workers exposed to pulmonary carcinogens. Chronic inhalation concentrations of aluminum fumes or dusts may lead to a fibrotic lung condition known as Shaver's Disease; however, evidence for this is not conclusive since affected workers were exposed to other substances (silica) as well. The inhalation of high concentrations of dust from manganese, copper, lead and/or zinc in the respirable particle size range can cause an influenzalike illness termed metal fume fever. Typical symptoms last 12 to 48 hours and are characterized by metallic taste in mouth, dryness and irritation of the throat, followed by weakness, muscle pain, fever, and chills. Continuous exposures to high concentrations of manganese can cause central nervous system disorders and manganese pneumonia. Fibrosis of lung tissue from manganese exposure has also been reported for products containing manganese only. Overexposure to aluminum dust can cause shortness of breath. Long term inhalation exposure to high concentrations (overexposure) to pneumoconiotic agents may act synergistically with inhalation of oxides, fumes or dusts of this product to cause toxic effects. Prolonged or repeated contact with unprotected skin may result in skin irritation. Torchng or burning operations on steel products with oil or organic coating may produce emissions which can be irritating to the eyes and respiratory tract.

V. EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air; if condition continues, consult a physician.

SKIN CONTACT: Remove particles by washing thoroughly with soap and water. Seek medical attention if condition persists.

EYE CONTACT: Flush thoroughly with running water to remove particulate, obtain medical attention.

INGESTION: If significant amounts of metal are ingested, consult physician. If condition is voluntary, psychotherapy is advised.

VI. FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASS:

FLASH POINT: N/A

EXTINGUISHING MEDIA: Media Suitable For Surrounding Fire (Fp N).

FIRE FIGHTING PROCEDURES: Wear full protective clothing including helmet, self-contained positive pressure-demand breathing apparatus, protective clothing, and a face mask.

SPECIAL PROCEDURES: Use Niosh Approved Scba Full Protective Equipment.

VII. SPILL OR LEAK PROCEDURES

PROCEDURE TO FOLLOW IF MATERIAL IS RELEASED OR SPILLED: N/A

Waste Disposal Method: Any excess product can be recycled for further use, disposed in a permitted hazardous waste landfill, or disposed by other methods which are in accordance with local, state, and federal regulations.

VIII. SPECIAL PROTECTION

RESPIRATORY: NIOSH/MSHA approved dust and fume respirators should be used to avoid excessive inhalation of particulates.

EYE PROTECTION: Provided when welding, burning, sawing, brazing, grinding or machining to prevent excessive dust or fume exposure.

HAND PROTECTION: Gloves recommended

OTHER: Additional protective equipment and/or clothing may be required

IX. CARCINOGENIC ASSESSMENT

Minimize and control operations producing airborne dust and fume. Provide adequate local and general exhaust ventilation.

X. REACTIVITY DATA

STABILITY: Stable under normal conditions of use, storage and transportation.

CONDITIONS TO AVOID: Generation of airborne fume and dust.

INCOMPATIBILITY: Strong acids (produce hydrogen gas)

HAZARDOUS DECOMPOSITION PRODUCT: Metallic oxide.

HAZARDOUS POLYMERIZATION: Will not occur

XI. SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Use good housekeeping practices.

All the information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Elgen Manufacturing be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Elgen Manufacturing has been advised of the possibility of such damages.