

# WELDING WIRE, STEEL 70S6, 44LB .035 DIA.

Product: NT560  
Revision Date: 2018/01/29

## Section 1: PRODUCT INFORMATION

**Chemical family:** Mixture.

**Product uses:** Welding.

**Manufacturer:** Weld-Mate  
22555 Aut. Transcanadienne  
Senneville, Quebec  
H9X 3L7.

**Manufacturer emergency phone number:** 866-457-1162

**Information phone number:** 866-457-1162

**Supplier:** Same as manufacturer.

**TDG classification:** Not regulated.

**WHMIS classification:** Not controlled.

**DSL status:** The substance(s) listed in section 2 appear on the Domestic Substances List.

**Supplier (M)SDS date:** 2018/01/29.

**Product name:** AWS E70S-6

## Section 2: HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingredient Name	TLV	LD50	LC50
7439-89-6	BALANCE	IRON	NOT AVAILABLE	30,000 MG/KG RAT ORAL	NOT AVAILABLE
7439-96-5	1.40-1.85	MANGANESE	0.02 MG(MN)/M3	9000 MG/KG RAT ORAL	NOT AVAILABLE
7439-98-7	*	MOLYBDENUM	3 MG/M3	NOT AVAILABLE	NOT AVAILABLE
7440-21-3	0.80-1.15	SILICON	10 MG/M3	3160 MG/KG RAT ORAL	NOT AVAILABLE
7440-44-0	0.06-0.15	CARBON	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
7440-50-8	0.50	COPPER, ELEMENTAL	0.2 MG/M3	413 MG/KG ORAL MOUSE	NOT AVAILABLE
7704-34-9	0.035	SULPHUR	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
7723-14-0	0.025	PHOSPHORUS	NOT AVAILABLE	11.5 MG/KG MOUSE ORAL 11.5 MG/KG RAT ORAL 105 MG/KG RABBIT ORAL	NOT AVAILABLE

## Section 2A: ADDITIONAL INGREDIENT INFORMATION

**Note:** (supplier).

CAS# 7439-89-6: TLV 5 mg/m3 (supplier).

CAS# 7723-14-0: TLV 0.1 mg/m3.

CAS# 7440-44-0: TLV 3 mg/m3 (respirable).

\*: Concentration of each ingredient is not disclosed.

### Section 3: PHYSICAL DATA

- Physical state:** Solid
- Appearance & odor:** Odourless.  
Rod or Wire.  
May be copper coded.
- Odor threshold (ppm):** Not applicable.
- Vapour pressure (mmHg):** Not applicable.  
@ 20°C (68°F).
- Vapour density (air=1):** Not applicable.
- Volatiles (%)**
- By volume:** Not available.
- Evaporation rate (butyl acetate = 1):** Not applicable.
- Boiling point (°C):** 3000
- Freezing point (°C):** 1535
- pH:** Not applicable.
- Specific gravity @ 20 °C:** (water = 1).  
7.86
- Solubility in water (%):** Insoluble.
- Coefficient of water\oil dist.:** Not applicable.

### Section 4: FIRE & EXPLOSION DATA

- Flammability:** Not flammable.
- Conditions of flammability:** Welding arc and sparks can ignite combustibles.
- Extinguishing media:** Carbon dioxide, dry chemical, foam.  
Halon  
Water spray.  
Any "ABC" Class.
- Special procedures:** Self-contained breathing apparatus required.  
Firefighters should wear the usual protective gear.
- Auto-ignition temperature (°C):** Not flammable.
- Flash point (°C), method:** Not applicable.
- Lower flammability limit (% vol):** Not applicable.
- Upper flammability limit (% vol):** Not applicable.
- Explosion Data**
- Sensitivity to static discharge:** Not sensitive.
- Sensitivity to mechanical impact:** Not sensitive.
- Hazardous combustion products:** Irritating fumes.  
Metal oxides.  
Iron compounds.

**Explosive power:** Molten material may present a significant thermal hazard.

### Section 5: REACTIVITY DATA

**Chemical stability:** Product is stable.

**Conditions of instability:** Contact with incompatible substances.  
Extreme temperatures.

**Hazardous polymerization:** Will not occur.

**Incompatible substances:** Strong acids.  
Halogens.  
Mineral acids.  
Strong oxidizers.

**Hazardous decomposition products:** Metal oxides.  
Iron compounds.

### Section 6: TOXICOLOGICAL PROPERTIES

**Route of entry:** Inhalation, skin and eye contact.

#### Effects of acute exposure

**Eye contact:** May cause burns.  
May cause irritation.  
Arc rays can injure eyes.  
Molten product may cause burns.

**Skin contact:** Pre-existing skin disorders may be aggravated by exposure.  
Prolonged contact may cause dermatitis.  
May cause redness.  
May cause irritation.  
Arc rays can burn the skin.  
Molten product may cause burns.  
High pressure injection under skin may cause serious damage.

**Inhalation:** May cause pulmonary edema.  
May cause irritation of the respiratory tract.  
May cause pneumoconiosis.  
May cause emphysema.  
Pre-existing respiratory disorders may be aggravated by exposure.

**Ingestion:** Not a likely route of exposure.

**Effects of chronic exposure:** Prolonged or repeated exposure may result in lead toxicity.  
Electric shock can kill.  
Pre-existing disorders of the pancreas may be aggravated by exposure.  
Pre-existing liver conditions may be aggravated.

**LD50 of product, species & route:** Not available for mixture, see the ingredients section.

**LC50 of product, species & route:** Not available for mixture, see the ingredients section.

**Exposure limit of material:** Not available for mixture, see the ingredients section.

**Sensitization to product:** None known.

**Carcinogenic effects:** Not listed as a carcinogen.

**Reproductive effects:** Not available.

**Teratogenicity:** Not available.  
**Mutagenicity:** Not available.  
**Synergistic materials:** Not available.

## Section 7: PREVENTATIVE MEASURES

### Precautionary Measures

**Gloves/Type:**



Welding gloves.

**Respiratory/Type:**



Use NIOSH approved respirator for fumes.



Air-supplied respirator if TLV is exceeded.

**Eye/Type:**



Safety glasses or goggles.  
Wear a face shield with filter lens.

**Footwear/Type:** Safety shoes per local regulations.

**Clothing/Type:** Wear adequate protective clothes.

**Other/Type:** Eye wash facility should be in close proximity.  
Emergency shower should be in close proximity.  
Hearing protection as needed.

**Ventilation requirements:** To maintain exposure below TLV.  
Adequate ventilation.

**Leak/Spill:** Pick up solids and place in a tightly sealed container.  
Wear appropriate protective equipment.

**Waste disposal:** In accordance with municipal, provincial and federal regulations.

**Handling procedures and** Handle and open container with care.

**equipment:** Use adequate ventilation.  
Wear personal protective equipment appropriate to task.  
Avoid breathing dust.  
Wash thoroughly after handling.  
Avoid eating and drinking while in use.  
Avoid contact with skin, eyes and clothing.  
Do not touch live electrical parts.  
Launder contaminated clothing prior to reuse.  
Train the welder not to permit electrically live parts of electrodes to contact skin, clothing or equipment.

**Storage requirements:** Store away from incompatible materials.  
Store in a cool and dry place.  
Store in a properly labelled container.  
Store away from moisture.

**TDG classification:** Not regulated.

**Special shipping information:** See transportation information.

### Section 8: FIRST AID MEASURES

**Skin contact:** Remove contaminated clothing.  
Flush with large amounts of water, for at least 15 minutes.  
Seek medical attention if irritation persists.  
If contact with molten product occurs, flush skin immediately with large volumes of cold water.

**Eye contact:** Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. Obtain medical attention immediately.  
Have victim look right and left, and, then up and down. Do not attempt to manually remove anything stuck to the eye.

**Inhalation:** Remove victim to fresh air. If not breathing, qualified personnel should administer artificial respiration. Get medical attention.

**Ingestion:** Get medical attention immediately.  
Never give anything by mouth to an unconscious person.  
Do not induce vomiting, unless directed to do so by a physician.  
Rinse mouth with water.

**Additional information:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

### Section 9: ADDITIONAL INFORMATION

**General note:** This material safety data sheet was prepared from information obtained from various sources, including product suppliers and the Canadian Center for Occupational Health and Safety.

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