

# SAFETY DATA SHEET

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## SECTION 1) IDENTIFICATION

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**Product ID:** TTU049  
**Product Name:** WELDING WIRE, STEEL 70S6, 550 LB, .035 DIA  
**Revision Date:** Mar 12, 2019 **Date Printed:** Mar 12, 2019  
**Version:** 1.0 **Supersedes Date:** N.A.  
**Supplier's Name:** SCN INDUSTRIAL  
**Address:** 22555 Trans-Canada Hwy St Anne-de-Bellevue, QC, CA, H9X 3L7  
**Emergency Phone:** +1 613-992-4624  
**Information Phone Number:** +1 800-661-2400  
**Fax:**  
**Product/Recommended Uses:**

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## SECTION 2) HAZARDS IDENTIFICATION

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### Classification

Acute aquatic toxicity - Category 3  
Acute toxicity, Dermal - Category 5  
Acute toxicity, Oral - Category 4  
Chronic aquatic toxicity - Category 3  
Skin Irritation - Category 3  
Skin Sensitizer - Category 1

### Pictograms



### Signal Word

Warning

### Hazardous Statements - Health

May be harmful in contact with skin.  
Harmful if swallowed.  
Causes mild skin irritation.  
May cause an allergic skin reaction.

### Hazardous Statements - Environmental

Harmful to aquatic life.  
Harmful to aquatic life with long lasting effects.

### Precautionary Statements - General

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.

Read label before use.

### Precautionary Statements - Prevention

- Avoid release to the environment.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary Statements - Response

- Call a POISON CENTER or doctor, if you feel unwell.
- IF SWALLOWED: Call a POISON CENTER or doctor, if you feel unwell.
- Rinse mouth.
- If skin irritation occurs: Get medical advice/attention.
- IF ON SKIN: Wash with plenty of water.
- If skin irritation or a rash occurs: Get medical advice/attention.
- Specific treatment (see first-aid on this label).
- Take off contaminated clothing. And wash it before reuse.

### Precautionary Statements - Storage

No precautionary statement available.

### Precautionary Statements - Disposal

Dispose of contents/container in accordance with local/national/international regulation. Waste management should be in full compliance with national, regional and local laws.

### Hazards Not Otherwise Classified (HNOC) (Physical & Health)

No Data Available

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## SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

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CAS	Chemical Name	% By Weight
0007439-89-6	IRON	90% - 100%
0007439-96-5	MANGANESE	1.4% - 1.9%
0007440-21-3	SILICON	0.8% - 1.2%
0007440-50-8	COPPER	0.0% - 0.5%
0007440-44-0	CARBON	0.1% - 0.2%
0007439-98-7	MOLYBDENUM	0.0% - 0.2%
0007704-34-9	SULFUR	0 - 0.1 %
0007723-14-0	PHOSPHORUS (YELLOW OR WHITE)	0 - 0.1 %
0007429-90-5	ALUMINUM	0 - 0.1 %
0007440-32-6	TITANIUM METAL POWDER	0 - 0.1 %
0007440-67-7	ZIRCONIUM	0 - 0.1 %

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

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## SECTION 4) FIRST-AID MEASURES

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### Inhalation

Inhalation is not anticipated to be a significant route of over-exposure to the wire or rods. Inhalation of large amounts of particulates generated by these products during metal processing operations may result in pneumoconiosis (a disease of the lungs). Repeated over-exposures, via inhalation, to the dusts or fumes generated by these products may have adverse effects on the lungs with possible pulmonary edema and emphysema (life threatening lung injuries). Refer to Section 10 (Stability and Reactivity) for information on the specific composition of welding fumes and gases. Remove source of exposure or move person to fresh air and keep comfortable for

breathing. If exposed/If you feel unwell/If concerned: Call a POISON CENTER/doctor.

### **Eye Contact**

Contact with the wire or rod form of these products can be physically damaging to the eye. Fumes generated during welding operations can be irritating to the eyes. Contact with the molten wire or rods will burn contaminated eyes. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a flushing duration of 15-20 minutes. If eye irritation persists: Get medical advice/attention.

### **Skin Contact**

Contact of the wire or rod form of these products with the skin is not anticipated to be irritating. Fumes generated during welding operations can be irritating to the skin. Symptoms of skin over-exposure may include irritation and redness; prolonged or repeated skin over-exposures may lead to dermatitis. Contact with the molten wire or rods will burn contaminated skin. Skin absorption is not known to be a significant route of over-exposure for any component of these products. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash contaminated clothing before re-use. If skin irritation occurs: Get medical advice/attention.

### **Ingestion**

Get medical advice/attention if you feel unwell.

### **Most Important Symptoms/Effects, Acute and Delayed**

Acute : The chief acute health hazard associated with these products would be the potential for irritation of contaminated skin and eyes when exposed to fumes during welding operations. Inhalation of large amounts of particulates generated by these products during metal processing operations can result in pneumoconiosis (a disease of the lungs). Contact with the molten material will burn contaminated skin or eyes.

Chronic: Chronic skin over-exposure to the fumes of these products during welding operations may produce dermatitis (red, inflamed skin). Repeated over-exposures to the fumes generated by these products via inhalation can have adverse effects on the lungs (e.g., pulmonary edema and emphysema). Repeated or prolonged ingestion exposures to >50-100 mg of Iron per day can result in deposition of iron in the body tissues, which can cause disease.

### **Indication of Immediate Medical Attention and Special Treatment Needed**

If skin irritation or rash occurs, get medical advice/attention.

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## **SECTION 5) FIRE-FIGHTING MEASURES**

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### **Suitable Extinguishing Media**

Water spray, carbon dioxide, Halon, any "ABC" class extinguisher, dry foam or chemical.

### **Unsuitable Extinguishing Media**

No data available.

### **Specific Hazards in Case of Fire**

Products may decompose and produce irritating fumes containing iron compounds and metal oxides. The molten material can present a significant thermal hazard to firefighters.

### **Fire-fighting Procedures**

Isolate immediate hazard area and keep unauthorized personnel out. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### **Special Protective Actions**

Wear positive pressure self-contained breathing apparatus (SCBA)

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## **SECTION 6) ACCIDENTAL RELEASE MEASURES**

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### **Emergency Procedure**

Isolate hazard area and keep unauthorized personnel away. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

### **Recommended Equipment**

Wear chemical protective clothing and NIOSH/MSHA approved respirator if there is a risk of exposure to dust at levels exceeding the exposure limits.

### Personal Precautions

Avoid breathing dust.

Avoid contact with skin, eye or clothing.

### Environmental Precautions

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

### Methods and Materials for Containment and Cleaning up

Avoid raising dust. Recover the material using broom and shovel or other convenient means and place in a lined or preferably plastic container.

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## SECTION 7) HANDLING AND STORAGE

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### General

Avoid raising dust.

Do not get in eyes, on skin or on clothing.

Eyewash stations and showers should be available in areas where this material is used and stored.

Remove contaminated clothing and protective equipment before entering eating areas.

Wash hands after use.

### Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

### Storage Room Requirements

Keep containers securely sealed when not in use.

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## SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Eye protection

Wear eye protection with side shields or goggles.

### Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity.

### Respiration protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, wear a NIOSH/MSHA approved respirator.

### Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	ACGIH Carcinogen	ACGIH Notations	ACGIH TLV Basis	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	NIOSH Carcinogen
ALUMINUM	A4	A4	Pneumoconiosis; LRT irr; neurotoxicity			1 (R)		
COPPER			Irritation; GI; metal fume fever			[0.2]; [1];		
MANGANESE	A4	A4	CNS impair			0.02 (R), 0.1 (I)		
MOLYBDENUM	A3	A3	URT irr			10 (I), 3 (R)		

PHOSPHORUS (YELLOW OR WHITE)								
SILICON								
SULFUR								
ZIRCONIUM	A4	A4	Resp irr	10		5		

Chemical Name	NIOSH STEL (mg/m3)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH TWA (ppm)	OSHA Skin designation	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA Carcinogen_Threshold - Thresholds for OSHA Carcinogens
ALUMINUM		2				1		
COPPER		0.1,1a				1		
MANGANESE	3	1				1		
MOLYBDENUM						1		
PHOSPHORUS (YELLOW OR WHITE)		0.1				1		
SILICON		10,5a				1		
SULFUR								
ZIRCONIUM	10a	5a				1		

Chemical Name	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA TWA (mg/m3)	OSHA TWA (ppm)	CAN_ONsmg	CAN_ONspgm	CAN_ONtmg	CAN_ONtppm
ALUMINUM			[15]; [5];					
COPPER			[0.1]; [1 (a)];					
MANGANESE			5 ceiling				0.2	
MOLYBDENUM			[15 (a)]; [5];					
PHOSPHORUS (YELLOW OR WHITE)			0.1					
SILICON			[15]; [5 (a)];					
SULFUR								
ZIRCONIUM			5					

Chemical Name	CAN_AL_Notation	CAN_ALsmg	CAN_ALtmg	CAN_ALtppm
ALUMINUM	3: Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.	[2]; [5];	10	

COPPER			0.21	
MANGANESE			0.2	
MOLYBDENUM			10	
PHOSPHORUS (YELLOW OR WHITE)			0.1	
SILICON				
SULFUR			10	
ZIRCONIUM		10	5	

(C) - Ceiling limit, (I) - Inhalable fraction, (R) - Respirable fraction, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, CNS - Central nervous system, GI - Gastrointestinal, impair - Impairment, irr - Irritation, LRT - Lower respiratory tract, resp - respiratory, URT - Upper respiratory tract

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## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

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Density	65.60 lb/gal
Specific Gravity	7.86
% VOC	No Data Available
Density VOC	No Data Available

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Appearance	No Data Available
Odor Threshold	No Data Available
Odor Description	No Data Available
pH	No Data Available
Water Solubility	Insoluble
Flammability	N/A
Flash Point Symbol	No Data Available
Flash Point	No Data Available
Viscosity	No Data Available
Lower Explosion Level	No Data Available
Upper Explosion Level	No Data Available
Vapor Pressure	No Data Available
Vapor Density	No Data Available
Freezing Point	1535 °C
Melting Point	1535 °C
Low Boiling Point	3000 °C
High Boiling Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Coefficient Water/Oil	No Data Available

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## SECTION 10) STABILITY AND REACTIVITY

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**Stability**

Stable under normal storage and handling conditions.

**Conditions To Avoid**

Avoid heat, sparks, flame and contact with incompatible materials.

**Hazardous Reactions/Polymerization**

Will not occur.

**Incompatible Materials**

Strong bases, acids, oxidizing and reducing agents.

**Hazardous Decomposition Products**

No data available.

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**SECTION 11) TOXICOLOGICAL INFORMATION**

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**Likely Route of Exposure**

Inhalation, ingestion, skin absorption.

**Acute Toxicity**

May be harmful in contact with skin.

Harmful if swallowed.

**Aspiration Hazard**

No data available.

**Carcinogenicity**

No data available.

**Germ Cell Mutagenicity**

No data available.

**Reproductive Toxicity**

No data available.

**Respiratory/Skin Sensitization**

May cause an allergic skin reaction.

**Serious Eye Damage/Irritation**

No data available.

**Skin Corrosion/Irritation**

Causes mild skin irritation.

**Specific Target Organ Toxicity - Repeated Exposure**

No data available.

**Specific Target Organ Toxicity - Single Exposure**

No data available.

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**SECTION 12) ECOLOGICAL INFORMATION**

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**Toxicity**

Harmful to aquatic life.

Harmful to aquatic life with long lasting effects.

**Persistence and Degradability**

No data available.

**Bio-accumulative Potential**

No data available.

**Mobility in Soil**

No data available.

**Other Adverse Effects**

No data available.

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**SECTION 13) DISPOSAL CONSIDERATIONS**

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**Waste Disposal**

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws.

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**SECTION 14) TRANSPORT INFORMATION**

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**IMDG Information**

UN number: Not Regulated

Proper shipping name: N/A

Hazard class: Not Applicable

Packaging group: Not Applicable

Marine Pollutant: No Data Available

Note / Special Provision: No Data Available

**IATA Information**

UN number: Not Regulated

Hazard class: Not Applicable

Packaging group: Not Applicable

Proper shipping name: N/A

Note / Special Provision: No Data Available

**U.S. DOT/ Canada TDG Information**

UN number: Not Regulated

Proper shipping name: N/A

Hazard class: Not Applicable

Packaging group: Not Applicable

Hazardous substance (RQ): No Data Available

Marine Pollutant: No Data Available

Note / Special Provision: No Data Available

## SECTION 15) REGULATORY INFORMATION

### Safety, health and environmental regulations

The following regulations have been evaluated for this product: SARA 312, SARA 313, SARA 313 PBT, TSCA, DSL, NDSL, NPRI, NJ RIGHT TO KNOW

CAS	Chemical Name	% By Weight	Regulation List
0007439-89-6	IRON	90% - 100%	DSL,SARA312,TSCA
0007439-96-5	MANGANESE	1.4% - 1.9%	SARA313, Canada_NPRI,DSL,Canada_NPRI_Part1A,SARA312,TSCA,
0007440-21-3	SILICON	0.8% - 1.2%	DSL,SARA312,TSCA,
0007440-50-8	COPPER	0.0% - 0.5%	SARA313, Canada_NPRI,DSL,Canada_NPRI_Part1A,SARA312,TSCA
0007440-44-0	CARBON	0.1% - 0.2%	DSL,SARA312,TSCA
0007439-98-7	MOLYBDENUM	0.0% - 0.2%	DSL,SARA312,TSCA
0007704-34-9	SULFUR	0 - 0.1 %	DSL,SARA312,TSCA
0007723-14-0	PHOSPHORUS (YELLOW OR WHITE)	0 - 0.1 %	Canada_NPRI,DSL,Canada_NPRI_Part1A,SARA312,TSCA,
0007429-90-5	ALUMINUM	0 - 0.1 %	Canada_NPRI,DSL,Canada_NPRI_Part1A,SARA312,TSCA,
0007440-32-6	TITANIUM METAL POWDER	0 - 0.1 %	DSL,SARA312,TSCA,
0007440-67-7	ZIRCONIUM	0 - 0.1 %	DSL,SARA312,TSCA,

## SECTION 16) OTHER INFORMATION

### Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDGCanadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center(US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

### Version 1.0:

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