

Section 1: Product and Company Identification

ProductIdentifier: E71T-GS Gasless Flux-Cored WireProduct Use: Carbon steel electrode for flux-cored welding without an external shield gasSupplier Name : Specialised Welding Products LtdSupplier address: Unit 1, Farringdon Industrial Centre, Farringdon, Nr Alton, Hampshire GU34 3DD, UKTel:+44 (0)1420 588180AWS Specification: A5.20

Section 2: Hazard Identification

Label Elements: WARNING! Protect yourself and others. Read and understand this information. Fumes and gases can be hazardous to your health. Arc rays can injure your eyes and burn skin. Electric shock cankill. <u>Hazard Phrases</u> Harmful if swallowed.

Precautionary Statements Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

IF SWALLOWED: call a poison center or doctor/physician if you feel unwell. Rinse mouth.

Collect spillage.

Dispose of contents/container in accordance with local/regional/national regulations.

*OtherHazards:*This product consists of odorless, metallic luster carbon steel sheath rod/wire with a flux core. There are no immediate health hazards associated with these products. These products are not reactive. If involved in a fire, these products may generate irritating fumes and a variety of metal oxides. Finely divided dusts of these products may result in explosive air/dust mixtures. Emergency responders must wear personal protective equipment suitable for the situation to which they areresponding.

Section 3: Composition/Information on Hazardous Ingredients

HAZARDOUS INGREDIENTS	CAS NUMBER	APPROXIMATE CONCENTRATION (%)
Iron (Fe)	7439-89-6	86.0 - 94.0
Manganese (Mn)	7439-96-5	1.0 - 4.0
Barium Carbonate (BaCO ₃)	513-77-9	1.0 - 4.0
Calcium Fluoride (CaF2)	7789-75-5	1.0 - 4.0

Section 4: First-aid Measures

Inhalation:	Inhalation may be the most common cause of overexposure due to the welding fumes. Large amounts of welding fumes will cause irritation of the nose, eyes and skin. Move from the area that has any fumes to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and transport to nearest medical facility for additional treatment.
Ingestion:	Not an expected route of exposure; however, if ingested, DO NOT induce vomiting. Call physician immediately. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion.
Eye Contact:	If arc flash or burns occur, obtain medical assistance. Large exposure to welding fumes may cause irritation to the eyes. Immediately flush upper and lower eyelids with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Rest eyes for 30 minutes. If redness, burning, blurred vision or swelling persists, visit nearest medical facility for additional treatment.
Skin Contact:	Large exposure to welding fumes may cause irritation to skin. If burns occur, flush with clean cool water for 15 minutes; obtain medical assistance when needed.
Additional Information:	No first aid measures should be required for unused electrodes ;first aid measures are relevant only during welding operations. See symptoms listed above.

NOTE: In all severe cases, contact physician immediately. Local telephone operators can provide number of regional poison control centre.

Flammable:	No; welding arc and sparks can ignite combustibles.
Means of Extinction:	If fire occurs, use extinguishing agents appropriate for surrounding (carbon dioxide, dry chemical, water spray, etc.).
Auto-ignition Temperature:	Not applicable
Hazardous Combustion Products:	This product may decompose and produce iron fumes, iron and a variety metal compounds and metal oxides. The hot material can present a significant thermal hazard to firefighters.
Explosion Data Sensitivity to	
Mechanical Impact:	Not applicable
Explosion Data Sensitivity to	
Static Discharge:	Not applicable
Special Equipment:	We arfull fire-fighting turn-out gear(full Bunk ergear)and respiratory protection (SCBA).
Precautions for Fire Fighters:	Do not breathe fumes or vapours from decomposition.

Section 6: Accidental Release Measures

Protective Equipment:	Not applicable to product as shipped. See section 8 for recommended
	equipment while welding.
Emergency Procedures:	Not applicable to product as shipped.

Avoid dispersal and contact of spilled material and runoff with soil, waterways, drains and sewers. Collect material in properly labeled containers in accordance with local, regional and national regulations.

Section 7: Handling and Storage

Handling Procedures and Equipment:	Product as shipped requires no special attention for handling. However, welding may produce fumes and gases that are hazardous to health. Avoid breathing these fumes and gases. Use adequate ventilation. Avoid contact with skin, eyes and clothing. Do not eat, drink and smoke in work areas.
Storage Requirements:	Store in a cool, dry and well-ventilated place. Keep away from incompatible materials, as well as heat and open flame.
Incompatibilities:	Strong acids, bases and oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:			
INGREDIENTS	Canada TWA Value (mg/m³)	OSHA PEL (мg/м³)	ACGIH TLV (мg/м ³)
Iron (Fe)	5(fume)	10(fume)	5(fume)
Manganese (Mn)	0.2	0.02, 0.2(fume)	0.2(resp), 0.1(fume)
Barium compounds, as Ba	0.5	0.5	0.5
Calcium Fluoride, as F	2.5	2.5	2.5
Engineering Controls:	brazing or proce information may	ssing. Respiratory be found regarding	ry protection is used v protection is recon the OSHA STANDA 94.4, along with man
Personal Protective Equipment:	leather welding glo	ves, as required for j not eat or drink wh	eld, as well as FR cloth ob duties. An approve tile using these produ

Section 9: Physical and Chemical Properties

Physical State:	Solid
Odorand Appearance:	Odorless metal rod or wire
Odor Threshold(ppm):	Not applicable
pH:	Not available
Melting Point:	1535°C /2795°F
Freezing Point:	Not available
Boiling Point:	3000°C / 5432°F (at 24 mmHg)
Flashpoint:	Not available
Upper Flammable Limit (% by volume):	Not available
Lower Flammable Limit (% by volume):	Not available

Section 10: Stability and Reactivity

Chemical Stability:

Possible Hazardous Reactions:

This product is stable under normal conditions; may produce dangerous gases or fumes when in use. None known

Materials to Avoid(Incompatibilities): Conditions of Reactivity: Hazardous Decomposition By-Products: Hazardous Polymerization: Avoid contact within compatible materials and uncontrolled exposure to extreme temperatures. Strong acids, bases and oxidizing agents. None under normal conditions. Metal oxide fumes and gases are produced during welding. Does not occur.

Skin Contact:	Arc rays can burn skin; skin cancer has been reported.
Skin Absorption:	Not applicable
Eye Contact:	Arc rays can injure eyes.
Inhalation:	Inhalation is the most likely route of exposure; refer to "Effects of Acute
	Exposure" and "Effects of Chronic Exposure" below.
Ingestion:	Unlikely due to form of product.
Effects of Acute Exposure:	Overexposure or inhalation of large amounts of welding fumes may cause
	symptoms such as metal fume fever, dizziness, nausea, dryness and
	irritation of your nose, throat or eyes as well as lung disease.
Effects of Chronic Exposure:	Overexposure or prolonged inhalation of large amounts of welding fumes
	with chromium compounds may cause cancer. Other overexposure o
	prolonged inhalation of large amounts of welding fumes symptoms ma
	include damage to the central nervous system, respiratory system, skin an
	could affect organs such as pancreas and liver.
Irritancy of Product:	Not available
Sensitization to Product:	Not available
Carcinogenicity:	Not available
Reproductive Effects:	Not available
Respiratory Sensitization:	Not available
Toxicological Data:	Not available

Section 11: Toxicological Information

Section 12: Ecological Information

Aquatic and Terrestrial Toxicity:	Not available	
Persistence and Degradability:	Not available	
Bioaccumulative Potential:	Not available	
Soil Mobility:	Not available	

Section 13: Disposal Considerations

NOTE: Always dispose of waste in accordance with local, provincial and federal regulations.

Safe Handling:Gloves can be worn when handling discarded or unwanted product.Methods of Disposal:Recycle when possible. Do not allow to enterdrains, sewersorwatercourses.Discard any unwanted product, residues, containers, orliners in a suitable disposal container in an environmentally acceptablemanner, as required by relevant local, regional and national legislation.

Section 14: Transportation Information

This material is not considered as a dangerous good per transportation regulations in the United States and Canada.

Section 15: Regulatory Information

CaliforniaProposition65:	These products contain chemicals known to the State of California to caus
	cancer, birth defects or other reproductive harm.
United States Toxic Substances	
Control Act (TSCA):	Iron, Manganese, Barium Fluoride (as Barium compounds)
Canada WHMIS Classification:	Iron, Manganese
Canada Domestic Substances List:	Manganese