SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details

Product Name	:	Filler Alloy
Recommended Use	:	Gas Metal Arc Welding

1.2 Company Identification

Company's Name	:	Leeden Gases Sdn. Bhd
Company's Address	:	Lot PT 5074 &5075, Jalan Jangur 28/43, Section 28, Hicom Industrial Estate, 40400 Shah Alam, Selangor. Malaysia
Emergency telephone Number	:	03-55228222 (Hunting Line) / 03-55228288 (Hotline)

SECTION 2: HAZARD IDENTIFICATION

Classification according to Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

Label Elements

Pictogram	:	Not applicable
Signal Word	:	Not applicable
Hazard Statements	:	Not applicable

Precautionary Statements

Prevention	:	P261 Avoid breathing fume/gas P280 Wear protective gloves/protective clothing/eye protection/face protection
Response	:	P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P337+P313 If eye irritation persists: Get medical advice/attention
Storage	:	P233+P403 Keep container tightly closed. Store in a well-ventilated place
Other Hazards	:	During welding process – Overexposure to welding fumes can be dangerous to health Watch out for splatter, hot metal and slag. It may cause skin burn and cause fire Arc rays can injure eyes and burn skin. Electric shock can kill. Avoid touching live electrical parts

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No	Chemical Formula	Concentrations (%)
Carbon	7440-44-0	C	0.06
Silicon	7440-21-3	Si	0.84
Manganese	7439-96-5	Mn	1.43
Phosphorus	7723-14-0	P	0.007
Sulphur	7704-34-9	S	0.011
Copper	7440-50-8	Cu	0.011
Iron	7439-89-6	Fe	97.50

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

Inhalation : IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms occur

Skin Contact : IF SKIN BURN. Affected area to be treated by a doctor.

Eye Contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion : IF SWALLOWED. Call a physician.

Most Important Symptoms and Effects, Acute and Delayed

Inhalation : Inhalation of vapour may cause irritation of the respiratory system in susceptible persons.

Indication of Any Immediate Medical Attention and Special Treatment Needed, If Necessary

Not Applicable

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media : Carbon dioxide (CO2), powder or diffuse jet of water. In case of major fire: Extinguish fire with diffuse jet of water or foam

Specific hazards arising from the chemical

Not applicable

Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus

SECTION 6: ACCIDENTAL RELEASE MEASURE

Personal precautions, protective equipment and emergency procedures

Mechanical ventilation and local exhaust ventilation must be adequate to keep fume concentrations within safe limits. Use respiratory equipment when welding in a confined space. Wear eye and skin protection plus protective clothing appropriate to welding.

Environmental precautions

Try to prevent the material from entering drains or water courses

Methods and material for containment and cleaning

Sweep up the floor

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Preventive handling precautions	:	Ensure adequate ventilation for the welder and others. Use respiratory equipment when welding in a confined space. Wear eye and skin protection plus protective clothing appropriate to welding. Remove all flammable materials and liquids before welding
General hygiene	:	Wash hands before breaks.

Conditions for safe storage, including any incompatibilities

Store welding consumables inside a room without humidity. Do not store welding consumables directly on the ground. Store away from chemical substances like acids which could cause chemical reactions.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Control parameters

Welding Fumes (NOC)	:	PEL - 8hr TWA = 5 mg/m3

Appropriate engineering controls

Mechanical ventilation and local exhaust ventilation must be adequate to keep fume concentrations within safe limits

Individual protection measures, such as personal protective equipment

Eye / face protection	:	Wear welding shield
Skin protection	:	Wear welding glove
Respiratory protection	:	Use respiratory equipment when welding in a confined space, for example N95 Dust Mask or half face respirator with filter

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	:	Copper coated solid welding wire
Form	:	Solid
Odour	:	Odourless
Odour threshold	:	Not applicable
pH	:	Not applicable
Melting Point / Freezing point	:	> 1500ºC

Initial boiling point and boiling range	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid gas)	:	Not applicable
Upper / lower flammability or explosive limits	:	Not applicable
Vapour pressure	:	Not applicable
Vapour density	:	Not applicable
Relative density	:	Not applicable
Specific Gravity	:	Not applicable
Solubility in water	:	Immiscible
Flash Point	:	Not applicable
Partition coefficient: n-octanol / water	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not applicable
Viscosity	:	Not applicable
Specific Gravity	:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity	:	Not applicable
Chemical stability	:	Stable at normal conditions.
Possibility of hazardous reactions	:	Not applicable
Conditions to avoid	:	None under normal conditions
Incompatible materials	:	Not applicable
Hazardous decomposition products	:	Welding fumes and gases

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Conditions to avoid	:	Overexposure to welding fumes can be dangerous to health, can cause dizziness, nausea and irritation to nose, throat or eyes
Acute Toxicity	:	Not applicable
Skin Corrosion / Irritation	:	Not applicable
Serious Eye Damage or Eye Irritation	:	Not applicable
Respiratory Sensitization	:	Not applicable
Skin Sensitization	:	Not applicable
Germ Cell Mutagenicity	:	Not applicable
Carcinogenicity	:	Not applicable
Reproductive Toxicity	:	Not applicable
Specific Target Organ Toxicity - Single Exposure	:	Not applicable
Specific Target Organ Toxicity -	:	Overexposure to welding fumes can be dangerous to health, can cause dizziness, nausea and irritation to

Repeated Exposure		nose, throat or eyes
Aspiration Hazard	:	Not applicable

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	:	The welding process can affect the environment if welding fume is released directly into the atmosphere. Residues from welding consumables could degrade and accumulate into soils and ground water.
Persistence and degradability	:	Not applicable
Bio accumulative potential	:	Not applicable
Mobility in Soil	:	Not applicable
Other adverse effects	:	Not applicable

SECTION 13: DISPOSAL INFORMATION

Disposal Information	:	Dispose of any product, residue, filter or packing material according to national and local regulations.

SECTION 14: TRANSPORT INFORMATION

No special requirements are necessary in transporting MIG Welding Wire.
Product should be properly packed to prevent contamination and oxidation.

SECTION 15: REGULATORY INFORMATION

- Occupational Safety and Health (Use and Standards of Exposure of Chemical Hazardous to Health) Regulations 2000, Malaysia.
- Occupational Safety and Health (Factory & Machinery Noise Exposure) Regulations 1989. Malaysia.
- Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

SECTION 16: OTHER INFORMATION

The above information was compiled and is made as accurate as possible to the best of our knowledge. This, however, does not represent a guarantee or warranty to the product itself or usage in general. The information given is designed only as a guide, condition of use and suitability of product for particular application is beyond our control. All risks of use of the product are therefore assumed by the users.