SAFETY DATA SHEET

WIRE FOR MIG WELDING OF STEEL

Cod. 402 00 00200-5-diameter 0,6-Kg. 5
Cod. 402 00 00250-6-diameter 0,8-Kg. 5
Cod. 402 00 00260-7-diameter 1,0-Kg. 15
Cod. 402 00 00270-8-diameter 1,2-Kg. 15
Cod. 402 00 01400-9-diameter 0,8-Kg. 15

1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY.

PRODUCT NAME: **WIRE FOR MIG WELDING OF STEEL**

INTENDED USE: **Welding wire.**

NAME OF THE COMPANY: **MECCANOCAR ITALIA S.R.L.**
Capannoli (PI) 56033 Via S. Francesco 22
-TEL. 0587/609433 (10 lines R. A.)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Wire components	Max % weight	CAS#	TVL mg/m3	Risk Class
Iron	97	7439-89-6		5
NA				
Manganese	2	7439-96-5		5
NA				
Silicon	2	7440-21-3		10
NA				
Copper*	2	7440-50-8		1
NA				

* surface copper plating included.

3. DANGER IDENTIFICATION

Avoid contact for eyes or inhaling powders developed by the product.
For the skin, contact usually presents no risks, it is anyway better to avoid it in order to prevent allergic reactions.
Occupational exposure limits: see those reported in paragraph 2.

During welding risks are due to the heat: sprays, melted metal and the arc can cause burns or set fire.

Radiations: the arc can seriously damage eyes and skin.
Shock: the shock arising from electric current can kill.
Fumes: long exposure to welding fumes can lead to symptoms like: dizziness, nausea, irritation of nose, throat and eyes.
Chronic exposure can limit the pulmonary function.

4. FIRST-AID MEASURES

Respiration: if difficult, take in the open air and call for a doctor.
Eyes: call for the doctor for burns due to arc strokes.
Skin: for burns arising from arc radiations, call for the doctor.

5. FIRE-FIGHTING MEASURES

No specific measure for the product.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: see section 8.

Environmental precautions: see section 13.

Cleaning methods: see section 13.

7. HANDLING AND STORAGE

Handling: avoid exposure to welding fumes, radiations, sprays, electric shock, high-temperature materials and powders. Do not swallow.
Handle with care in order to avoid cuts or scratches.
Storage: keep separated from chemical substances that can trigger chemical reactions.

8. EXPOSURE/PROTECTION (during use).

Engineering measures: assure sufficient ventilation and air eduction in the arc area in order to keep the breathing area of the user free from welding fumes and gases.
Keep the working place and the protective equipment clean and dry.
Avoid contacts with uncovered electric parts and isolate every conductive part.
Personal protective equipment: use the respirator when you weld in close rooms.

Always wear protections for hands, head, eyes and body, like: gloves, overalls, leggings and

welding armbands, helmet/mask and safety shoes.

Always keep the equipment clean and dry.
Refer to DPR 303/1956 and to DPR 547/1955.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: metal wire, not volatile.
Odour: without any particular odour.
Colour: variable.
Size: continuous wire with diameter from 0,6 to 1,2 mm.
Density: 8 Kg./dm3.
Melting point: superior to 1.300°C.

10. STABILITY AND REACTIVITY

This product is to be used only for welding.
Stability: it is stable under the normal conditions.
Reactivity: contact with chemical substances like acids could develop gases.

Dangerous produits arising from decomposition include those released by volatilisation, reaction or oxidation of the components listed in section 2 and of those of the base metal.

The probable possible components of the fumes of this product are metal oxides, that is Fe and Mn. Those of the gases include oxides of Nitrogen, Carbon and Ozone.
N.B. For the TLV pertinent to the fumes components with limit values to be respected, the reference is to the TLV in section 2 and to the following:

Component	CAS	TVL (mg/m3)
Ozone	10028-15-6	0,2

11. TOXICOLOGICAL INFORMATION

Inhaling the welding fumes and gases can be dangerous for health.
Acute toxicity: overexposition to the welding fumes leads to symptoms like nauseas, dizziness, dryness and irritation of nose, throat and eyes.
Chronic toxicity: a continuous overexposition to welding fumes can limit the pulmonary functionality and overexposition to Manganese can cause troubles to the nervous system.

12. ECOLOGICAL INFORMATION

The material could degrade, in time and by exposures to atmospheric agents, in components arising from the consumables and the materials in use in the welding processes. Avoid putting it in conditions that could lead to its accumulations in the ground.

13. **DISPOSAL**

Discharge every product, residual product, container or packaging in an acceptable way for the environment, anyway completely complying with the national and local laws.
If and where feasible, use recycling procedures. Welding wastes could degrade and accumulate in the ground.

14. **TRANSPORT**

No rule or restriction applicable.

15. **REGULATION INFORMATION**

Read and know the producer's instructions concerning health and safety, put on packaging. Follow national and local regulations.
When welding, take the suitable precautions for yourself and the other people.
Fumes and gases can be harmful for health.
The electric arc can damage the eyes and the skin.
The electric shock can kill.
Keep your head as much as possible out of the fumes.
Use sufficient ventilation or see to adequate eduction of fumes from the area where the welder breathes. Use protections for eyes, head and body.
Do not touch uncovered electric parts.

16. **FURTHER INFORMATION**

References: AMERICAN NATIONAL STANDARD Z49.12.
"Safety in welding, cutting" published by AWS AMERICAN WELDING SOCIETY 550 N.W. Lejeune Road P.O. Box 351040 MIAMI, FL 33135 U.S.A.
ACGIH: Threshold Limit Values and Biological Exposure Indices 6500 Glenway. Ave., Cincinnati

Ohio 45211 U.S.A.

Ministerial Decree 28-01-1992.
Law N. 256 del 29-05-1974.
Decree of the President of the Republic 547/1955.
Decree of the President of the Republic 303/1956.
Law by Decree Nr. 626 del 19-09-1994.
Information Sheets on Fumes by the I.I.S.

The information reported here are those by qualified experts. The information in the document are updated to the date above reported. Since the use of this information and the use conditions of the product are not under the control of our company, the user is obliged to determine the conditions for the use of the product under a safety system.