

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Identification of the product : FINCORD M
Use : Electric arc welding coated electrode.
Company identification : AIR LIQUIDE WELDING FRANCE
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2 HAZARDS IDENTIFICATION**Risk by welding use**

Heat : Spatter and melting metal can cause burn injuries.
Radiation : UV, IR radiations. Arc ray can severely damage eyes or skin.
Fumes : Formation of dangerous fumes during use. Inhalation of welding fumes may cause respiratory irritation. Cough. Excessive or prolonged inhalation of fumes may cause metal fume fever.
Electricity : Electric shocks can kill.
Magnetic fields : Persons with a pacemaker should not go near welding or cutting operations until they have consulted their doctor and obtained information from the manufacturer of the device.

3 COMPOSITION / INFORMATION ON INGREDIENTS

This product is not considered to be hazardous but contains hazardous components.

Substance name	Value(s)	CAS No / EC No / EC Index	Symbol(s)	R-Phrase(s)
<u>Iron</u>	: 58 to 78 %	7439-89-6 / 231-096-4 / -----		
<u>Quartz (SiO₂)</u>	: 3 to 8.7 %	14808-60-7 / 238-878-4 / -----		
<u>Manganese</u>	: 1.5 to 4 %	7439-96-5 / 231-105-1 / -----		
<u>Cellulose</u>	: 0.5 to 1.5 %	9004-34-6 / 232-674-9 / -----		
<u>Feldspar-group minerals</u>	: 0.5 to 4 %	68476-25-5 / 270-666-7 / -----		
<u>Rutile</u>	: 8 to 25 %	1317-80-2 / 215-282-2 / -----		
<u>Potassium silicate</u>	: 0.7 to 4 %	1312-76-1 / 215-199-1 / -----		

4 FIRST AID MEASURES

- Inhalation : Assure fresh air breathing. Obtain medical attention if breathing difficulty persists.
- Skin contact : Take off immediately all contaminated clothing. Flush with plenty of water. Seek medical advice.
- Eye contact : Rinse immediately with plenty of water. Seek medical attention immediately.
- Ingestion : Rinse mouth. Obtain emergency medical attention.

5 FIRE-FIGHTING MEASURES

Flammable class : The product is not flammable.
Prevention : Welding hot slag or sparks may cause fire.
Extinguishing media : Powder. Foam.
Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions : Equip clean-up crew with proper protection.
After spillage and/or leakage : On land, sweep or shovel into suitable containers.

7 HANDLING AND STORAGE

- Storage : Store in dry protected location to prevent any moisture contact. Keep container closed when not in use.
Handling : Provide local exhaust or general room ventilation to minimize fumes concentrations. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Personal protection
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe gas/fumes/vapour.
 - Hand protection : Welding gloves.
 - Skin protection : Skin protection appropriate to the conditions of use should be provided.
 - Eye protection : Use a protection mask equipped with suitable filter glasses. Interdiction to wear contact lenses.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : Solid.
Colour : Grey.
Odour : Odourless.
Melting point [°C] : ca 1500

10 STABILITY AND REACTIVITY

- Stability : Stable under normal conditions. (< 300°C)
Materials to avoid : Contact with chemical substances like acids ou bases could cause generation of gas.
Hazardous decomposition products : Formation of dangerous fumes during use. Welding fumes are classified carcinogen by the IARC (International Agency for Research on Cancer) : Group 2B Cancer suspected agent. Reasonably expected gaseous products would include carbon oxides, nitrogen oxides and ozone.
Fume Data Sheet : According to process conditions, hazardous decomposition products may be generated. These hazardous products could include those from the reaction or oxidation of the components listed in section 3 or included in base material.
Fumes Emission Rate : The amount of fumes generated change with the welding parameters and the diameters of the consummable. Refer to applicable national exposure limits for fume compounds and national exposure limits for fumes.
Other information : In case of work on parts covered by coatings such as : Lubricant, Solvent, Paint, Metallic compounds, Grease, etc... The thermal or photochemical decomposition products of these elements cumulate with the dusts and fumes emitted by the melting of the welding product. The solution to adopt must be, in any case, preceded by a spot study. Refer to the document "Health and Safety in Welding" published by the International Institute of Welding (IIS/IIW).

11 TOXICOLOGICAL INFORMATION

- Toxicity information : This material or its emissions may induce an allergic or sensitization reaction and thereby aggravate existing systemic disease.
- Acute toxicity : Inhalation of welding fumes may cause respiratory irritation. Nausea. Fever. Giddiness. Eye irritation.
- Chronic toxicity : Overexposure to welding fumes may cause : Pulmonary/bronchial disease and/or cause breathing difficulty.

12 ECOLOGICAL INFORMATION

- Ecological effects information : Avoid release to the environment.

13 DISPOSAL CONSIDERATIONS

- Disposal : Dispose in a safe manner in accordance with local/national regulations.
- Industrial waste number : 120113 Welding wastes
120101 Ferrous metallic scraps

14 TRANSPORT INFORMATION

- ADR/RID : Not regulated.

15 REGULATORY INFORMATION

- Symbol(s) : None.
- R Phrase(s) : None.
- S Phrase(s) : None.

16 OTHER INFORMATION

- Warning : Fumes and gases emitted during welding may be dangerous. Good ventilation of the workplace required.
- Directive 2002/95/CE (ROHS) : Can be used in the fabrication of electric and electronic devices
- Training advice : Ensure that user is aware of the potential hazards and knows what to do in the event of an accident or an emergency.
- Recommended uses and restrictions : Contact your supplier in case of doubt.
- Product information : www.safety-welding.com
- The contents and the format of this safety data sheet comply with Regulation (EC) No 1907/2006 of the European Parliament.

DISCLAIMER OF LIABILITY : The information in this sheet is based on the knowledge available when it was published. The user must ensure that the information is applicable and exhaustive for the application. The information contained in this sheet is only applicable for this product. The product must not be used for any application that is not allowed, in this case we will not be responsible for any damage caused. The user must respect current Safety, Health and Environmental legislation. This information concerns Safety and is not a substitute to the technical data of the product. This sheet cancels and replaces the previous ones.

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