

Material safety data sheet MSDSENG234

INE 48 A	Edition number	11
	Date of compilation	02 April 2021
	Supersedes	MSDSENG234 ed. 10 dated 30-03-2021

in accordance to Commission Regulation (EU) 2015/830 of 28 May 2015



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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

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1.2. Relevant identified uses of the substance or mixture and uses advised against

Covered electrodes for manual metal arc welding.

1.3 Details of the supplier of the safety data sheet

INE SpA, Via Facca 10, 35013 Cittadella (Padova), Italy

Tel. : +39 049/9481111

Fax: + 39 049/9400249

Internet: www.ine.it

E mail: ine@ine.it

1.4 Emergency telephone number

INE SpA +39 049/9481111

Hours of operation: 8.30-12-30 and 13.30-17.30

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This product doesn't meet the criteria of classification in any hazard class according to the applicable Regulations. However the form in which product is placed on the market does not present a danger, such preparations do not require a label.

2.2. Label elements

No labelling applicable.

2.3 Other hazards

- Results of evaluation of PTB and vPvB substances: the covered electrode does not meet the criteria for PBT or vPvB in accordance with Annex XIII.
- 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.
- Noise: Noises generated by welding equipment could damage auditory system.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Non applicabile.

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3.2 Mixtures

The substances in the preparation are as follows:

Name of the substance	Range of concentration	CAS Number	EC Number	REACH Number	Hazard class	hazard statements
					According to European Regulation 1272/2008	
Iron	64 - 72 %	7439-89-6	231-096-4	01-2119462838-24	-	-
Rutile	15 - 20 %	1317-80-2	215-282-2	-	-	-
Potassium silicate 	5 - 10 %	1312-76-1	215-199-1	01-2119456888-17	Skin Corr. 1B Eye Dam. 1 STOT SE 3	H314 H318 H335
Minerals (as Kaolin)	3 - 6 %	1332-58-7	310-194-1	-	-	-
Manganese	3 - 5 %	7439-96-5	231-105-1	01-2119449803-34	-	-
Minerals (as Mica)	2 - 4 %	12001-26-2	310-127-6	-	-	-
Minerals (as Feldspar)	2 - 4 %	68476-25-5	270-666-7	-	-	-
Calcium carbonate	< 2 %	1317-65-3	215-279-6	-	-	-
Cellulose	< 2 %	9004-34-6	232-674-9	-	-	-
Red iron oxide	< 2 %	1309-37-1	215-168-2	01-2119457614-35	-	-

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Welding fume inhalation: assure fresh air breathing. Obtain medical attention if breathing difficulty persists.

Skin contact with hot metal: Flush with plenty of water. Seek medical advice. Seek medical attention if burns develop. Take off immediately all contaminated clothing.

Eye contact with hot metal: rinse immediately with plenty of water. Seek medical attention immediately. In case of burns from radiations, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See 2.3.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable: powder, carbon dioxide.

Unsuitable: water.

5.2 Special hazards arising from the substance or mixture

The product for arc welding process is not flammable.

5.3 Advice for firefighters

Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Not applicable.

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6.2 Environmental precautions

Not applicable.

6.3 Methods and material for containment and cleaning up

Solid product: collect with mechanical equipments, sweep or shovel into suitable containers.

6.4 Reference to other sections

Section number 8 and 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

No special precautions necessary the product. During its use, a system of aspiration system and/or ventilation such as to ensure the fulfillment of exposition standards shall be planned.
Do not eat, drink and smocking in the workplaces. Wash hands shower when leaving the working areas. Remove contaminated clothes and protective equipment before to enter in the areas where you eat.

7.2 Conditions for safe storage, including any incompatibilities

Avoid the contact with chemical substances like acids or bases
High-density solid product. Avoid storage in unstable positions

7.3 Specific end use(s)

Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

The following substances may be produced during the welding process in the fume:

Substance	CAS Number	TLV-TWA [mg/m ³] *	Gestis Limit value (8 h) [mg/m ³] **
Fe oxides (powder and fumes as Fe)	1309-37-1	5	5
Manganese and inorganic compounds (as Mn)	7439-96-5	0.2	0.2
Manganese, fume or respirable dust	7439-96-5		0.2
Silicon oxides (as Si fumes)	69012-64-1	2	
Particles not otherwise classified (PNOC)		3	
Ozone	10028-15-6	0.2	0.2
Titanium oxides	13463-67-7	10	10

* References of TLV limit values taken from "Giornale degli Igienisti Industriali", april 2011 *.

** Reference IFA limit values taken from IFA ((Institute for Occupational Safety and Health). Date of update: April 2020

8.2 Exposure controls

- 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.
- It is recommended to use of Exposure Scenario in addition to the provided information.