

FILO DA SALDATURA DEL MARCHIO MKC

Allegata a questo documento è la relativa Scheda di Sicurezza dei Materiali (MDS)
per i prodotti descritti di seguito:

Codice	Descrizione	Modello
495237891	MK6040/1.0/100 - Stagno in rocchetto 60/40 1,0mm 100gr	MK6040/1.0/100
495237892	MK6040/1.5/100 - Stagno in rocchetto 60/40 1,5mm 100gr	MK6040/1.5/100
495237893	MK6040/0.5/100 - Stagno in rocchetto 60/40 0,5mm 100gr	MK6040/0.5/100
495237894	MK6040/0.7/500 - Stagno in rocchetto 60/40 0,7mm 500gr	MK6040/0.7/500
495237895	MK6040/1.0/500 - Stagno in rocchetto 60/40 1,0mm 500gr	MK6040/1.0/500
495237896	MK6040/1.5/500 - Stagno in rocchetto 60/40 1,5mm 500gr	MK6040/1.5/500
495237897	MK6040/1.0/1000 - Stagno in rocchetto 60/40 1,0mm 1000gr	MK6040/1.0/1000
495237898	MK6040/1.5/1000 - Stagno in rocchetto 60/40 1,5mm 1000gr	MK6040/1.5/1000
495237901	MK6040/1.0/250 - Stagno in rocchetto 60/40 1,0mm 250gr	MK6040/1.0/250
495237902	MK6040/1.5/250 - Stagno in rocchetto 60/40 1,5mm 250gr	MK6040/1.5/250
495237904	MK6040/0.7/100 - Stagno in rocchetto 60/40 0,7mm 100gr	MK6040/0.7/100
495237915	MK6040/1.0/15 - Stagno in tubetto 60/40 1,0mm 15gr	MK6040/1.0/15
495237916	MK6040/1.5/15 - Stagno in tubetto 60/40 1,5mm 15gr	MK6040/1.5/15
495237917	MK6040/1.5/30 - Stagno in tubetto 60/40 1,5mm 30gr	MK6040/1.5/30
495237905	MK6040/0.7/250 - Stagno in rocchetto 60/40 0,7mm 250gr	MK6040/0.7/250
495237899	MK6040/0.5/500 - Stagno in rocchetto 60/40 0,5mm 500gr	MK6040/0.5/500
495237903	MK6040/0.5/250 - Stagno in rocchetto 60/40 0,5mm 250gr	MK6040/0.5/250

SECTION 1: Identification of the substance/mixture and of the company/undertaking

• 1.1 Product identifier

• Trade name:

Solder wire

• Registration number:

Lead

Registration number (REACH): 01-2119513221-59-0151

EC number: 231-100-4

Tin

Registration number (REACH): 01-2119486474-28-0106

EC number: 231-141-8

• UFI number:

No available data.

• Other means of identification:

Article No.: A2.

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

• Application of the substance/ mixture:

Industrial/professional uses, welding material.

• Uses advised against:

No available data.

• Reason why uses advised against:

No available data.

• 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier:

Melchioni S.p.A

Via Pietro Colletta 37, 20135 Milano, Italy

Tel: (+39) 02 5794215

Email: quality@melchioni.com

• Only Representative/other EU contact point:

No information available.

• 1.4 Emergency telephone number

Tel: 112

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture

• 2.1.1 Classification according to regulation (EC) 1272/2008:

Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Skin Sens. 1, H317	Calculation method
Repr. 1A, H360FD	Calculation method
Lact., H362	Calculation method

• 2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

• 2.2 Label elements

• Labeling according to Regulation (EC) No 1272/2008:

The product is labelled according to CLP Regulation.

• Hazard pictograms:



GHS07 GHS08

• Signal word:

Danger

• **Hazard-determining components of labelling:**

Lead massive; Rosin.

• **Hazard statements:**

H317 May cause an allergic skin reaction
H360FD May damage fertility or the unborn child
H362 May cause harm to breast-fed children

• **Precautionary statement:**

P201 Obtain special instructions before use.
P261 Avoid breathing dust/mist.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

• **Supplemental label elements:**

Restricted to industrial / professional users only.

• **2.3 Other hazards**

None of the ingredients (≥0.1%) meets the criteria for PBT/vPvB in accordance with Annex XIII.

None of the ingredients (≥0.1%) is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

SECTION 3: Composition/information on ingredients

• **3.1 Substance**

Not applicable

• **3.2 Mixtures**

• **Description of the mixture:**

Solder wire.

Ingredients:						
Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Tin	7440-31-5	-	231-141-8	59	None	-
Lead massive	7439-92-1	082-014-00-7	231-100-4	39	Repr. 1A, H360FD Lact., H362	Repr. 1A, H360FD: C≥0.03%
Rosin	8050-09-7	650-015-00-7	232-475-7	2	Skin Sens. 1, H317	-

Lead Registration number (REACH): 01-2119513221-59-0151

Tin Registration number (REACH): 01-2119486474-28-0106

Additional information:

For full text of H-statements, see SECTION 16.

SECTION 4: First aid measures

• **4.1 Description of first aid measures**

General advice:

IF exposed or concerned: Get medical advice/attention.

After inhalation:

Remove person to fresh air and keep comfortable for breathing.

Get medical attention if you feel unwell.

After skin contact:

Wash with plenty of water.

If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

Rinse cautiously with water for several minutes.

If eye irritation occurs: Get medical advice/attention.

After swallowing:

Rinse mouth.

Call a POISON CENTER/doctor if you feel unwell.

• **4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are as indicated in sections 2 and 11.

• **4.3 Indication of any immediate medical attention and special treatment needed:**

Treat according to symptom, there is not known specific medicine.

SECTION 5: Fire-fighting measures

• **5.1 Extinguishing media**

• **Suitable extinguishing agents:**

Not flammable solid, use the suitable extinguishing agent surrounding condition.

• **Unsuitable extinguishing media:**

No known unsuitable extinguishing media.

• **5.2 Special hazards arising from the substance or mixture:**

May form allergic dust/fume in air under fire.

• **5.3 Advice for firefighters**

Protective equipment:

Wear self-contained breathing apparatus for firefighting.

SECTION 6: Accidental release measures

• **6.1 Personal precautions, protective equipment and emergency procedures**

• **6.1.1 For non-emergency personnel**

Protective equipment:

Protective gloves/ protective clothing/ eye protection/ face protection and respiration protection.

Emergency procedures:

Ensure adequate ventilation.

Evacuate quickly.

Avoid breathing dust.

Avoid contact with skin.

• **6.1.2 For emergency responders**

Personal protective equipment:

Protective gloves/ protective clothing/ eye protection/ face protection and respiration protection.

• **6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so.

Prevent spillage from entering drains, sewer, basement or confined areas.

If the spillage contaminates rivers, lakes or drains inform respective authorities.

• **6.3 Methods and material for containment and cleaning up:**

Sweep up and shovel into suitable containers for disposal.

Dispose contaminated material as waste according to section 13.

• **6.4 Reference to other sections:**

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

SECTION 7: Handling and storage

• **7.1 Precautions for safe handling:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Ensure adequate ventilation at workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

Use respiratory protective device against the effects of vapor.

Prevent contact with eyes and skin.

Avoid release to the environment.

• **Information about fire and explosion protection:**

Normal measures for preventive fire protection.

• **7.2 Conditions for safe storage, including any non-compatibility**

• **Requirements to be met by storerooms and receptacles:**

Store in a cool and well-ventilated place.

• **Information about storage in one common storage facility:**

Keep away from foodstuffs.

• **Further information about storage conditions:**

Store locked up.

• **Storage class:**

13.

• **7.3 Specific end use(s):**

See section 1.2.

SECTION 8: Exposure controls/personal protection

• **8.1 Control parameters**

• **Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value - Short term
7439-92-1 Lead and inorganic compounds (as Pb)		
Austria	0.1 mg/m ³ inhalable aerosol	0.4 mg/m ³ inhalable aerosol
Belgium	0.15 mg/m ³	-
Denmark	0.05 mg/m ³ inhalable aerosol	0.10 mg/m ³ inhalable aerosol
European Union	0.15 mg/m ³ inhalable aerosol	-
Finland	0.1 mg/m ³	-
France	0.1 mg/m ³ inhalable aerosol	-
Germany (AGS)	0.15 mg/m ³ inhalable aerosol	-
Hungary	0.15 mg/m ³ inhalable aerosol	0.60 mg/m ³ inhalable aerosol
Ireland	0.15 mg/m ³	-
Italy	0.15 mg/m ³ inhalable aerosol	-
Latvia	0.005 mg/m ³	0.01 mg/m ³ 15 minutes reference period
Poland	0.05 mg/m ³	-
Spain	0.15 mg/m ³ inhalable aerosol	-
Sweden	0.1 mg/m ³ inhalable aerosol; 0.05 mg/m ³ Respirable fraction	-
8050-09-7 Rosin		
Latvia	4 mg/m ³	-
United Kingdom	0.05 mg/m ³	0.15 mg/m ³

• **DNELs:**

DNEL type		DNEL worker value	DNEL consumer value
8050-09-7 Rosin			
Systemic effects	Long-term, dermal exposure	2.131 mg/kg bw/day	1.065 mg/kg bw/day
	Long-term, oral exposure	-	1.065 mg/kg bw/day

• **PNECs:**

PNEC type	Value
8050-09-7 Rosin	
Freshwater	1.6 µg/L
Intermittent releases (freshwater)	16 µg/L
Marine water	160 ng/L
Sewage treatment plant (STP)	1 g/L
Sediment (freshwater)	7 µg/kg sediment dw
Sediment (marine water)	700 ng/kg sediment dw

• **Additional information:**
The lists valid during the marking were used as basis.


• **8.2 Exposure controls**

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

• **Appropriate engineering controls:**
Handle in accordance with good industrial hygiene and safety practice.
Wash hands and face before breaks and at the end of work.
Take off contaminated clothing and wash it before reuse.
See section 7 for information about design of technical facilities.

• **Personal protective equipment**


• **Eye and face protection:**



Safety glasses
Protective goggles with side-shields.


• **Skin protection**

• **Hand protection:**




Protective gloves
Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.11mm; breakthrough times up to 480 minutes).


• **Other skin protection:**



Face protection




Safety boots



Safety overalls

Face shield, gauntlets, boots, bodysuit are recommended.

• **Respiration protection:**



Respiratory equipment
Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

• **Thermal hazards:**
The gauntlets, boots, bodysuit and other personal protective equipment must be flame retardant and no heat-conducting.

• **Environmental exposure controls:**
Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
• Physical state	Solid
• Color	Silver
• Odor & Odor threshold	Odorless
• Melting point/freezing point (or softening point/range)	Not determined
• Boiling point or initial boiling point and boiling range	Not determined
• Flammability	Not flammable solid
• Lower and upper explosion limit	Not applicable
• Flash point	Not applicable
• Auto-ignition temperature	Not determined
• Decomposition temperature	Not applicable
• pH	Not determined
• Kinematic viscosity (mm ² /s)	Not applicable
• Solubility	Insoluble in water
• Partition coefficient n-octanol/water (log value)	Not applicable
• Vapor pressure	Not determined
• Density and/or relative density	Not determined
• Relative vapor density	Not applicable
• Particle characteristics	Not determined
9.2 Other information	
9.2.1 Information with regard to physical hazard classes:	
• Explosives	Not applicable
• Flammable gases	Not applicable
• Aerosols	Not applicable
• Oxidising gases	Not applicable
• Gases under pressure	Not applicable
• Flammable liquids	Not applicable
• Flammable solids	Not applicable
• Self-reactive substances and mixtures	Not applicable
• Pyrophoric liquids	Not applicable
• Pyrophoric solids	Not applicable
• Self-heating substances and mixtures	Not applicable
• Substances and mixtures, which emit flammable gases in contact with water	Not applicable
• Oxidizing liquids	Not applicable
• Oxidizing solids	Not applicable
• Organic peroxides	Not applicable
• Corrosive to metals	Not applicable
• Desensitised explosives	Not applicable
9.2.2 Other safety characteristics	
• Mechanical sensitivity	Not applicable
• Self-accelerating polymerisation temperature	Not applicable
• Formation of explosible dust/air mixtures	Not applicable
• Acid/alkaline reserve	Not applicable
• Evaporation rate	Not applicable
• Miscibility	Not applicable
• Conductivity	Not applicable
• Corrosiveness	Not applicable
• Gas group	Not applicable
• Redox potential	Not applicable
• Radical formation potential	Not applicable
• Photocatalytic properties	Not applicable

• Other physical and chemical parameters	Not determined
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SECTION 10: Stability and reactivity

• **10.1 Reactivity:**

The product is non-reactive under normal conditions of use, storage and transport.

• **10.2 Chemical stability:**

Under storage at normal ambient temperatures, the product is stable.

• **10.3 Possibility of hazardous reactions:**

No known hazardous reaction.

• **10.4 Conditions to avoid:**

High temperature and high humidity.

• **10.5 Incompatible materials:**

Strong oxidizing agent and acids.

• **10.6 Hazardous decomposition products:**

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

• **11.1 Information on toxicological effects**

• **Acute toxicity:**

Based on available data, the classification criteria are not met.

• **Skin corrosion/irritation:**

Based on available data, the classification criteria are not met.

• **Serious eyes damage/ irritation:**

Based on available data, the classification criteria are not met.

• **Respiratory or skin sensitization:**

May cause an allergic skin reaction.

• **Germ cell mutagenicity:**

Based on available data, the classification criteria are not met.

• **Carcinogenicity:**

Based on available data, the classification criteria are not met.

• **Reproductive toxicity:**

May damage fertility or the unborn child.

May cause harm to breast-fed children..

• **STOT-single exposure:**

Based on available data, the classification criteria are not met.

• **STOT-repeated exposure:**

Based on available data, the classification criteria are not met.

• **Aspiration hazard:**

Based on available data, the classification criteria are not met.

• **11.2 Information on other hazards**

• **11.2.1 Endocrine disrupting properties:**

None of the ingredients ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to humans, as none of them meet the criteria set out in section A of Regulation (EU) No 2017/2100.

• **11.2.2 Other information:**

No known other relevant information on adverse health effects.

SECTION 12: Ecological information

• 12.1 Toxicity:

LC50/EC50/NOEC values relevant for classification:

8050-09-7 Rosin	
Short-term toxicity to fish	LC50 (4 days) 1.7 - 5.4 mg/L
Short-term toxicity to aquatic invertebrates	LC50 (48 h) 1.6 mg/L NOEC (48 h) 625 µg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 16.6 - 39.6 mg/L NOEC (72 h) 6.25 mg/L
Toxicity to microorganisms	EC50 (3 h) 10 g/L

• 12.2 Persistence and degradability:

8050-09-7	Rosin	Readily biodegradable in water
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• 12.3 Bio-accumulative potential:

8050-09-7	Rosin	Log Pow = 1.9 - 7.7
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• 12.4 Mobility in soil: No available data.

• 12.5 Results of PBT and vPvB assessment:

This mixture does not contain any substances (≥0.1%) that are assessed to be a PBT or a vPvB.

• 12.6 Endocrine disrupting properties:

None of the ingredients (≥0.1%) is considered to have endocrine-disrupting properties with respect to non-target organisms, as none of them meet the criteria set out in section B of Regulation (EU) No 2017/2100.

• 12.7 Other adverse effects:

No known other adverse effects.

• 12.8 Additional ecological information

• General notes:

WGK2 (German Regulation) (self-assessment): Hazard to waters.

Do not allow the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

• 13.1 Waste treatment methods

• Recommendation:

Must not be disposed together with household garbage.

• 13.2 Un-cleaned packaging

• Recommendation:

Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

• ADR/ADN/RID (2023 Edition)	This product is not subject to ADR/ADN/RID.
• IATA-DGR (64th)	This product is not subject to IATA-DGR.
• IMO/IMDG (40-20)	This product is not subject to IMO/IMDG code.

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

• MAK (German Maximum Workplace Concentration):

None of the ingredients is listed.

• Directive 2012/18/EU

• Named dangerous substances-ANNEX I:

None of the ingredients is listed.

• **Seveso category:**

Not applicable

• **Qualifying quantity (tonnes) for the application of lower-tier requirements:**

Not applicable

• **Qualifying quantity (tonnes) for the application of upper-tier requirements:**

Not applicable

• **National regulations.**

• **Water hazard class:**

WGK2 (German Regulation) (self-assessment): Hazard to waters.

• **Other regulations, limitations and prohibitive regulations**

• **SVHC Candidate list of REACH Regulation Annex XIV Authorization:**

7439-92-1	Lead	Toxic for reproduction (Article 57c)
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• **REACH Regulation Annex XVII Restriction:**

7439-92-1	Lead	Entry no.: 63
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• **REACH Regulation Annex XIV Authorization List:**

None of the ingredients is listed.

• **15.2 Chemical safety assessment:**

A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

• **16.1 Indication of changes:**

None.

• **16.2 Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

vPvB: very persistent and very bio accumulative

SVHC: Substance of Very High Concern

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

Skin Sens. 1: Skin sensitization, hazard category 1

Repr. 1A: Reproductive toxicity, hazard category 1A

Lact.: Reproductive toxicity, effects on or via lactation

• **16.3 Key literature references and sources for data:**

<https://echa.europa.eu/>

<https://chem.nlm.nih.gov/>

<https://www.osha.gov/>

<http://www.unece.org/>

<http://www.imo.org/>

<https://www.dguv.de/>

<https://epa.govt.nz/>

<http://www.ilo.org/>

<https://www.phmsa.dot.gov/>

• **16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:**

See section 2.1 (classification).

• **16.5 Relevant H- and EUH-phrases (number and full text):**

H317 May cause an allergic skin reaction

H360FD May damage fertility or the unborn child

H362 May cause harm to breast-fed children

• **16.6 Training advice:**

Workers must be trained in general and specific aspects of safe work procedures for this chemical. Workers need easy to understand guidelines and instructions for safe working with this chemical. Instructions, guidelines and legally required documents need to be available for workers in easy to understand language.

• **16.7 Further information:**

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

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