

## SCHEDA TECNICA/ TECHNICAL DATA SHEET

### MASTERWAX Extra Fluid RED

Extra Fluid Rossa / Red

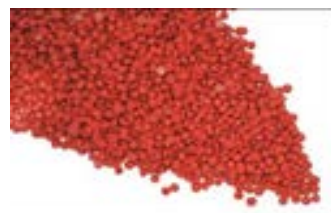
Cera estremamente fluida pensata per i pezzi filigranati di grandi dimensioni e dagli spessori fino a 0,2 mm. Grazie alla sua fluidità, anche a basse temperature, scorre molto bene riempiendo perfettamente tutte le cavità dello stampo, inoltre ha una buona flessibilità, resistenza e durezza che facilita l'estrazione dallo stampo evitando le rotture e deformazioni, oltre ad avere buone prestazioni durante il processo di calcinazione.

The extremely fluid wax designed for large filigree pieces with thicknesses up to 0,2 mm. Thanks to its fluidity, this wax, even at low temperatures, has excellent flows, perfectly filling all the cavities of the model, moreover it has a good flexibility, resistance and hardness, that allows easily extraction from mold avoiding breakages and deformations, also has good performance during the process of calcination.

Temperatura di utilizzo consigliata/Use temperature:

Oggetti sottili/ Thin models 69-72°C

Filigrane/ Filigree 74-76 °C



Caratteristiche/ Characteristics:

Parametro/Parameters	Method	Value
Colore/Colour		Red
Temperatura di solidificazione/Freezing point	ASTM D938	60-61 °C
Temperatura di fusione/Melting point	ASTM E87	61 °C
Temperatura di decomposizione/ Degradation temperature		250 °C
Peso specifico/Specific Gravity (@ 20°C)	ISO 1183	0.92 g/ml
Durezza/Hardness	ISO 868	27 Shore D
Modulo elastico/Elastic module	ISO 6892-1	215 N/mm <sup>2</sup>
Ritiro/Shrinkage		1,5 %
Viscosità/Viscosity at 82 °C	ASTM D5125	152 cSt
78 °C		123 cSt
72 °C		112 cSt
Residuo dopo combustione/Residue after combustion	ISO 6245	0,001 %

Packaging:

Cera in gocce disponibile nelle buste da 5 kg e 25 kg/ Drops of wax in 5kg and 25 kg bags.

Stoccaggio/ Storage:

Stoccare in un luogo asciutto al riparo dalla luce solare diretta, dal calore e dall'umidità. Evitare il contatto con il materiale riscaldato. Evitare riscaldamento alle temperature oltre 200 °C. Classe di stoccaggio: 11

Store in dry place far away from direct sunlight, heat and humidity. Avoid contact with heated materials. Avoid heating material over 200 °C. Storage class: 11.

Queste informazioni sono fornite in buona fede, basandosi sulle nostre conoscenze e vanno utilizzati come guida. Il cliente dovrebbe determinare l'adeguatezza di questo prodotto per il suo utilizzo e assumere tutti i rischi e conseguenze associati ad un utilizzo di questo prodotto. Unico reclamo che verrà gestito da Masterix s.r.l. è la sostituzione del nostro prodotto e non assumiamo nessuna responsabilità riguardo a un non corretto smaltimento e gli incidenti dovuti ad un non adeguato o insolito utilizzo.

This information is offered in good faith, based on our knowledge and meant only as a guide. Masterix s.r.l. shall not be responsible for the use of this information, or any product, method, or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employee and purchasers of your product. The only complain that will handle by Masterix s.r.l is replacement of our product.

Leggere Scheda di sicurezza prima dell'utilizzo del prodotto

Read Safety Data Sheet before using a product.

Masterix S.r.l.

Via L. Galvani 59/61 - 52100 Arezzo (Italy) - Tel. (+39) 0575 368335  
P.iva/C.f.: IT02128530512 – [www.masterix.it](http://www.masterix.it) - [masterix@masterix.it](mailto:masterix@masterix.it)



## MATERIAL SAFETY DATA SHEET

### Section 1. Material identification and company information:

Safety data sheet: general information

**Material identification:** Extra Fluid wax Masterix

**Synonyms:** Injection wax

**General Use:** It generally used in jewellery industry in wax casting process.

**Manufacturer:** Masterix s.r.l

Address: Street Luigi Galvani 59/61, 52100, Arezzo, Italy

Email: masterix@masterix.it

Telephone: +39 0575 368335

European Emergency number: 112

### SECTION 2: Hazards identification

**Material is non classified as hazard regarding to regulation (CE) n. 1272/2008**

This blend does not meet the criteria for classification in accordance with the CLP Regulations

### SECTION 3: Composition/information on ingredients

Hazardous Ingredients (Co, Ni, As, Cd, Hg, Pb): 0%

Non-Hazardous Ingredients: Waxes (petroleum & vegetable) and Hydrocarbon resins 100%.

Exact composition is a trade secret. Details available to qualified medical personnel in emergency situations.

### SECTION 4: First aid measures

Description of first aid measures:

**General information:** Adhere to personal protective measures when giving first aid.

**Inhalation:** No special measures necessary. If person inhales vapor of mix that exceed degradation temperature remove victim to fresh air. Seek medical attention.

**Skin Contact:** If hot wax strikes skin, drench or immerses the area in cold water to assist cooling. Do not try to remove wax from burn. Seek medical attention. If solid wax contacts skin, wash with soapy water

**Eye Contact:** In case of contact with eyes rinse with plenty of water carefully. In case of persistent symptoms seek medical attention.

**Ingestion:** In case of persisting pain, seek medical attention.

### SECTION 5: Firefighting measures

**Extinguishing media:** Foam, CO2 and dry powder

**Extinguishing media which must not be used for safety reasons:** Water jet

**Special hazards arising from the substance or mixture**

In case of fire the following substance can be released:

Carbon monoxide (CO)

Carbon dioxide (CO2)

Smoke

## **SECTION 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures:**

- Remove persons to safety.
- Wipe away the product. Spilled product may create a risk of falling due to slippery ground.

**Personal protection equipment:** see section 8

**Environmental precautions:** Avoid dispersal of material and contact with soil, waterways, drains and sewers. For more information see section 12, Ecological information.

### **Methods and material for containment and cleaning up:**

Avoid dust formation  
Take up mechanically

## **SECTION 7: Handling and storage**

**Precautions for safe handling:** Keep away from food – no smoking. Avoid a dust formation and deposition. Avoid skin contact with hot material. Minimize breathing wax fumes. Keep container closed.

**Conditions for safe storage, including any incompatibilities:** Store away from heat, flame and direct sunlight. Store container at cool and aired place.

## **SECTION 8: Exposure controls/ personal protection**

### **Control parameters**

#### **Ingredients with limit values that require monitoring at the workplace**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### **Exposure controls**

#### **Respiratory protection**

Use fine dust mask with P1 filter in case of dust development

#### **Eye protection**

Safety goggles with side protection

#### **Skin protection**

Protective clothing

### **General protective measures**

Do not inhale dust/fume-aerosols

### **Hygiene measures**

At work do not eat, drink and smoke  
Wash hands before breaks and after work.

**Exposure Limits:** not available.

**Exposure Limits when overheated (fume):** Paraffin Wax (Fume) TWA: 2 STEL: 6 (mg/m<sup>3</sup>) [Canada] TWA: 2 (mg/m<sup>3</sup>) from OSHA (PEL) [United States] TWA: 2 (mg/m<sup>3</sup>) from ACGIH (TLV) [United States] TWA: 2 (mg/m<sup>3</sup>) from NIOSH [United States] TWA: 2 STEL: 6 [United Kingdom (UK)] Consult local authorities for acceptable exposure limits.



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## SECTION 9: Physical and chemical properties

**Appearance:** Solid

**Shape:** Drops

**Colour:** Red

**Odour:** Odourless

**Odour threshold:** No data available.

pH value in delivery state: Not applicable.

**Melting point:** 62-64°C.

**Congealing temperature:** 60-62 °C

**Flash point:** >200 °C

Explosive properties: not applicable

Decomposing temperature: over 250 °C

Solubility in Water: Insoluble

**Density at 20 °C:** 0.92 g/cm<sup>3</sup>

Kinetics Viscosity: (82 °C) 113 cSt.

## SECTION 10: Stability and reactivity

**Stability:** Stable.

**Conditions to Avoid:** Direct contact with open flame.

**Incompatibility (Materials to Avoid):** Strong oxidizing agents.

**Hazardous Decomposition Product:** Primarily CO and CO<sub>2</sub> on combustion.

## SECTION 11: Toxicological information

**Eye contact:** Molten wax fumes may be slightly irritating to the eyes.

**Skin contact:** Molten wax will cause burns on contact with skin.

**Inhalation:** Molten wax fumes may cause mild (upper) respiratory irritations.

**Ingestion:** No specific information identified.

**Other medical effects:** None Known.

## SECTION 12: Ecological information

Toxicity

Toxicity aquatic:

8002-74-2 paraffin waxes and hydrocarbons

EL50 > 10000 mg/l (daphnia)

LL50 > 100 mg/l (fish)

NOEL > 100 mg/l (algae) (acute)

10 mg/l (daphnia) (Long-term)

**Products of Biodegradation:** Possibly hazardous short-term degradation products are not likely. However, long term degradation products may arise

**Ecotoxicity:** Not available.

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available

**Other adverse effects**

If used as directed no ecologically harmful effects are known or expected.

## SECTION 13: Disposal consideration

Waste must be disposed of in accordance with national and local environmental control regulations.



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**Recommendations for packaging:** Remove in accordance with local official regulations.

**SECTION 14: Transport information**

**Transport ADR/RID/ADN**

The product is not subject to ADR/RID/AND regulations.

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

**SECTION 15: Regulatory information**

Material Safety Data Sheet according to Regulation (CE) No. 1907/2006.

This product is not classified as dangerous according to CE criteria.

Health, safety and environmental legislation and regulations specific to the substance or mixture (Labelling according to Regulation (EC) No. 1272/2008: not applicable

Directive 2012/18/UE Specified dangerous substances - ANNEX I: The substance is not contained

**SECTION 16: Other information**

Compilation date: 02/02/2021

The information and recommendations contained herein are based upon data believed to be correct up to our knowledge. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by purchase, resale, use or exposure to our wax. Customers-users of wax must comply with all applicable health and safety laws, regulations, and orders.