



## SCHEDA TECNICA/ TECHNICAL DATA SHEET

### MASTERWAX UNIVERSAL BLU

#### Universal Blu / Blue UMF19

Descrizione: La nuova formulazione della cera Masterix, pensata per essere universale e molto versatile, adatta per completare gli stampi siliconici sia con gli oggetti filigranati, dato la sua fluidità, elasticità e resistenza alla rottura, che quelli massivi considerando il suo basso ritiro. La cera ha una buona memoria e mantiene la sua flessibilità e resistenza nel tempo che permette il suo ampio utilizzo. È completamente calcinabile, non lascia residui dopo la fusione.

The new Masterix wax formulation, designed to be universal and very versatile, suitable for completing molds with both filigreed objects, given its fluidity, elasticity and resistance to breakage, and massive ones considering its low shrinkage. The wax maintains its flexibility and resistance over time which allows its wide use. It is completely castable, does not leave any residues after melting.

#### Temperatura di utilizzo consigliata/Use temperature:

Oggetti massivi/ Massive models 70°C

Oggetti medie/ Medium models 74-76 °C

Filigrane/Filigree 78-80 °C



#### Caratteristiche/ Characteristics:

Parametro/Parameters	Method	Value
Colore/Colour		Blue
Temperatura di solidificazione/Freezing point	ASTM D938	65-66 °C
Temperatura di fusione/Melting point	ASTM E87	68 °C
Temperatura di decomposizione/ Degradation temperature		250 °C
Peso specifico/Specific Gravity (@ 20°C)	ISO 1183	0.92 g/ml
Durezza/Hardness	ISO 868	35 Shore D
Modulo elastico/Elastic module	ISO 6892-1	165 N/mm <sup>2</sup>
Ritiro/Shrinkage		1,2 %
Viscosità/Viscosity at 82 °C	ASTM D5125	245 cSt
78 °C		276 cSt
72 °C		340 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 utilizzate 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.

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## MATERIAL SAFETY DATA SHEET

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

Safety data sheet: general information

**Material identification:** Universal 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, CO<sub>2</sub> 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 (CO<sub>2</sub>)

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:** Blue brilliant

**Odour:** Odourless

**Odour threshold:** No data available.

pH value in delivery state: Not applicable.

**Melting point:** 68-72°C.

**Congealing temperature:** 64-66 °C

**Flash point:** >200 °C

Explosive properties: not applicable

Decompounding temperature: over 250 °C

Solubility in Water: Insoluble

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

Kinetics Viscosity: (82 °C) 245 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**

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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.