

MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

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

1.1 Identification of the substance or preparation	<u>Wax</u> (product code: F...)
1.2 Use of the substance/preparation:	Wax Flex for different applications of the dental laboratory.
1.3 Company/undertaking identification:	Manufacturer Micerium S.p.A Via G. Marconi 83 16036 Avegno (GE) -Italy Phone: +39. 0185. 7887870 fax +39. 0185. 7887970
1.4 Emergency telephone:	Poison Control Center San Martino Hospital (Genova, Italy) Phone: +39 010 352808 (available 24 hours/ 24)

2. HAZARDS IDENTIFICATION

Most important hazards:	HMIS Information: Health: 1 Flammability:1
Physical – chemical hazards:	None
Hazards for human health:	
Eyes:	Irritation or severe thermal burns.
Skin:	Severe thermal burns.
Inhalation:	Respiratory tract irritation
Ingestion:	Low order of acute systematic toxicity.
Over-exposure signs and symptoms:	None
Chronic effects:	None
Hazards for environment:	None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Code product	Description	Common name for the compound	CAS-number	Content	OSHA PEL	ACGIH TLV
F65R	Dipping wax	A blend of wax, resin, and polymer	-	100%	2ppm (mg/m ³) (paraffin fume)-	TWA 2ppm (mg/ m ³) (Paraffin fume)-
F54P - F55P - F55ZB - F66P F66R F67Y	Purple Inlay Green, blue Inlay Pink Bite sticks Boxing wax Yellow, blue, and green Sticky wax	A blend of wax, and resin	-	100%	2ppm (mg/m ³) (paraffin fume)-	TWA 2ppm (mg/ m ³) (Paraffin fume)-
F02A-F03A-F04A- F05A-F06A-F08A F06S-F08S-F10S- FS2S	Casting wax Red extrusion wax					
F54B-F54G F54W-F55B F55G-F55W- F67R F00S-F04S-F06S- F06SB-F08R- F08S-F08SB-F10R F10SB-F12R- F12SB-F14R-F14S F18S-F24S	Flex Ez blue, green, white; Utility wax (Red_white); Blue wire wax;	A wax blend_ of paraffin and microcrystalline waxes_	-	100%	2ppm (mg/m ³) (paraffin fume)	TWA 2ppm (mg/m ³) (Paraffin fume)

Legend: NA = not applicable; NA = not available data

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F54R-F54V	Grey and Ivory Wax	A blend of wax and paraffin	-	100%	2ppm (mg/m ³) (paraffin fume)	TWA 2ppm (mg/m ³) (Paraffin fume)
* F85H-F95A-F95H	Pink Sheet Wax (Hard and All season)	A blend of wax and paraffin	-	100%	TWA 2ppm (mg/m ³) (paraffin Fume)	TWA 2ppm (mg/m ³ -8hr.) Paraffin Fume

4. FIRST AID MEASURES

Measure to be adopted when:

- **It contacts eyes:** Ambient wax: flush wax particles with tepid water. Hot wax: Seek medical attention.
- **It contacts skin:** Ambient wax: wash with soap and water.
Molten wax: cool wax immediately- don't remove wax from skin. Seek medical attention.
- **Inhaled:** When fume or mist occurs remove to fresh air. If person is not breathing provide oxygen or artificial respiration. Seek medical attention.
- **Ingested:** Small quantities: permit to pass through system.
Large quantities: seek medical attention.

5. FIRE-FIGHTING MEASURES

- General information:** Move containers from fire area if it can be done without risk. Use water to keep fire –exposed containers cool.
- Suitable extinguishing media:** Use water fog, alcohol-type foam, dry chemical, or CO₂. Do not use direct stream of water.
- Extinguishing media which shall not be used for safety reasons:** As with most solid or particulate organic material, extremely high dust concentration in air may result in a potential fire hazard. Good housekeeping practice will prevent any significant accumulations.
- * **Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:** Carbon dioxide, Carbon Monoxide (only for products F00S-F02A-F03A-F04A- F04S- F05A-F06A F06S-F06SB--F08A-F08R-F08S-F08SB-F10R-F10SB-F12R-F12SB-F14R-F14S-F18S-F24S- F66P-F66R-F67R-F67Y-F85H-F95A-F95H)
- Special protective equipment for fire-fighters:** Fire fighters should wear proper protective equipment and self-contained breathing with full face-piece in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Work/ hygienic practices: use good personal hygiene when handling this product. Wash hands after use, before smoking , or using the restroom facilities.
- Environmental precautions:**
- Measures for cleaning/collecting:** Sweep up material and place in appropriate disposal container. If molten wax-contain spill as much as possible and let molten wax cool. Once solid, place material in appropriate disposal container.

7. HANDLING AND STORAGE

- 7.1 Handling:** Follow all MSDS/label precautions even after container is emptied because they may retain product residues.
Work/ hygienic practices: use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the restroom facilities.
- 7.2 Storage:** Follow all MSDS/label precautions even after container is emptied because they may retain product residues.
- 7.3 Specific use(s):** NA

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Exposure limit values:** NA

Legend: NA = not applicable; NA = not available data

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

8.2.1.a Respiratory protection: Normally none required. For mist and fumes used approved NIOSH/MSHA organic respirator.

8.2.1.b Hand protection: Ambient wax _ cotton gloves. Molten wax_ Impervious heat protective gloves.

8.2.1.c Eye protection: Safety glasses with side shields (or goggles) and a face shield.

8.2.1.d Skin protection: NA

8.2.2 Environmental exposure controls:

Ventilation: Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limit. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information:

Physical state: Waxy solid
Colour: Various
Odour: Little or no odours

9.2 Important health, safety and environmental information:

pH:	NA	Relative density:	NA
Vapour pressure:	NA	Solubility:	NA
Flash point:	>200 ° C method used: COC, ASTM D-92	Water solubility:	Insoluble
	Except for F54R-F54V: > 130° C		
Flammability (solid, gas):	NA	Partition coefficient: n-octanol/water:	NA
Explosive properties:	NA	Vapour density:	NA
Oxidising properties:	NA	Evaporation rate:	NA

9.3 Other information:

Miscibility:	NA	Boiling point/boiling range:	NA
Fat solubility (solvent — oil to be specified):	NA	Gas group:	NA
Conductivity:	NA	Auto-ignition temperature	NA

Flex Ez (F54B - F54G - F54W - F55B - F55G - F55W):

Melting point/melting range: 66,11 +/- 21,11° C

Specific Gravity: ~ 0,910

Grey and Ivory Wax (F54R - F54V):

Melting point/melting range: 85 +/- 35° C

Specific Gravity: ~ 0,930

Utility wax (F67R):

Melting point/melting range: 75,56 +/- 21,11° C

Specific Gravity: ~ 0,932

Dipping wax (F65R):

Melting point/melting range: 71,11 +/- 21,11° C

Specific Gravity: ~ 0,930

Boxing wax (F66R):

Melting point/melting range: ~ 74,44° C

Legend: NA = not applicable; NA = not available data



Specific Gravity: ~ 0,970

Pink Bite sticks (F66P):

Melting point/melting range: 65,56+/- 21,11° C

Specific Gravity: ~ 0,920

Purple Inlay (F55P-F54P):

Melting point/melting range: 75 +/- 21,11° C

Specific Gravity: ~ 0,944

Green, and white Inlay (F55ZB):

Melting point/melting range: 66,11+/- 21,11° C

Specific Gravity: ~ 0,944

Yellow, blue, and green Sticky wax (F67Y):

Melting point/melting range: 66,67+/- 21,11° C

Specific Gravity: ~ 0,940

Blue wire wax (F00S-F04R- -F06SB-F08R-F08SB-F10R-F10SB-F12R-F12SB-F14R-F14S-F18S-F24S)

Melting point/melting range: 78,33+/- 21,11° C

Specific Gravity: ~ 0,934

Casting wax (F02A-F03A-F04A-F05A-F06A-F08A):

Melting point/melting range: 71,67 +/- 21,11° C

Specific Gravity: ~ 0,937

Red extrusion wax (F06S-F08S-F10S-F12S):

Melting point/melting range: 62,22+/- 21,11° C

Specific Gravity: ~ 0,930

* **Pink Sheet Waxes (F85H-F95A-F95H):**

Melting point/melting range: 71° C

Specific Gravity: ~ 0,950

10. STABILITY AND REACTIVITY

- * **10.1 Conditions to avoid:** NA. Stable, until melting temperatures shown at point 9
- 10.2 Materials to avoid:** Strong oxidizing materials.
- 10.3 Hazardous decomposition products:** Carbon dioxide (carbon monoxide with incomplete combustion).

11. TOXICOLOGICAL INFORMATION

11.1 Immediate effects due to:

- 11.1.1 Skin/ eye contact:** Eyes: Fumes from molten product may cause irritation. Contact with molten product may cause severe thermal burns. Skin: Contact with molten wax may cause severe thermal burns.
- 11.1.2 Inhalation:** Product dust may cause respiratory tract irritation. Molten wax may cause irritation to the respiratory tract.
- 11.1.3 Ingestion:** Low order of acute systematic toxicity.

11.2 Delayed effects due to:

- 11.2.1 Skin/ eye contact:** NA
- 11.2.2 Inhalation:** NA



11.2.3 Ingestion:	NA
11.3 Chronic effects due to:	
11.3.1 Skin/ eye contact:	NA
11.3.2 Inhalation:	NA
11.3.3 Ingestion:	NA
11.4 Sensitizing effects:	NA
11.5 Carcinogenicity, mutagenicity and reproductive toxicity:	NA
Other toxicological information:	NA

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	NA
12.2 Mobility:	NA
12.3 Persistence and degradability:	NA
12.4 Bio accumulative potential:	NA
12.5 Results of PBT assessment	NA
12.6 Other adverse effects:	NA

13. DISPOSAL CONSIDERATIONS

Recommendation:	Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.
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14. TRANSPORT INFORMATION

	None
14.1 By sea (IMDG):	NA
14.2 By road (ADR):	NA
14.3 By rail (RID):	NA
14.4 By Air (ICAO / IATA):	NA

15. REGULATORY INFORMATION

Labelling according to EU guidelines:	No hazardous ingredients as defined by OSHA 29 CFR 1910.1200.
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16. OTHER INFORMATION

16.1 List of relevant R phrases:	NA
16.2 Training advice:	NA
16.3 Recommended restrictions on use:	Only for professional use
16.4 Further information:	NA
16.5 Sources of key data used to	The information presented herein is believed to be factual as it has been derived from the works of persons believed to be qualified experts. However, nothing contained in this information is to be taken

Legend: NA = not applicable; NA = not available data



Identification of products: Wax

Code: F...

Revision: 2/2015

(Reference: 12RED.pdf ;20110426141953592.pdf; BLUE WIRE.pdf; CASTING WAX (ALL COLORS).pdf; STICKY ALL COLORS.pdf date 01/05/2010; HS-C-CERA APPR IT 1.0; N. FLEX.2) *

compile the Safety Data Sheet:

as a warranty or representation for which Micerium S.p.a. bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

16.6 Changes from the previous version (if available):

General Revision in according to Regulation (EC) No 1907/2006

Information about new products

16.7 Released by:

Micerium S.p.A.
