(Ref: IT_VISIONSIL 45_70 SH PARTE A + PARTE B dated 07/09/2015)

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	Temp Silic (product code TEMPSMT/TEMPSMT5 – TS1/TS1-5)
1.2 Use of the substance/preparation:	Silicone for transparent masks. Addition Silicone for molding and injection of light-cured composites
1.3 Company/undertaking identification:	Micerium S.p.A. Via G. Marconi 83 16030 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

2.1 Substance or mixture classification	The product is not classified as hazardous in accordance with the provisions of Regulation (EC) 1272/2008 (CLP). However, the product containing hazardous substances at a concentration to be declared in section 3, it requires a safety data sheet with adequate information in accordance with Regulation (EC) 1907/2006 and subsequent amendments.
2.2 Label elements	ND
2.3 Other hazards	ND

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Main ingredients: Non relevant information

3.2 Mixtures:

Common name for the compound	CAS-number	CE number	Concentration	Symbol	Hazard and precautionary statement
Amorphous silica	112945-52-5	231-545-4	28,5-30%		Substance with a community exposure limit in the workplace

* ful text of R and S-Phrases can be found under heading 16

4. FIRST AID MEASURES

4.1 First aid measures' description: Not specifically necessary. In any case it is recommended to respect the rules of good industrial hygiene

Measure to be adopted when:

- **It contacts eyes**: NA
- **It contacts skin**: NA
- **Inhaled**: NA
- **Ingested**: NA

4.2 Most important symptoms and effects, acute and delayed: Not known health damage incidents attributable to the product

4.3 Indication of any immediate medical attention and special treatment needed: Information not available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:	Traditional: Carbon dioxide, foam, dust and nebulise water
Extinguishing media which shall not be used for safety reasons:	None in particular
5.2 Special exposure hazards arising from the substance or from the mixture:	Hazards caused by exposure in the event of fire: avoid breathing in the combustion products.

5.3 Recommendation for firefighters:	Cool the containers with jets of water to avoid the decomposition of the product and the development of substances potentially dangerous for the health. Always wear the complete fire protection equipment. Collect the extinguishing water that must not be discharged into the sewer. Dispose of the contaminated water used for the extinction and the residue of the fire according to the regulations in force.
Special protective equipment for fire-fighters:	Normal clothing for firefighting, such as an open-circuit compressed air breathing apparatus (en 137), complete flameproof (EN469) flameproof gloves (en 659) and Boots for firefighters (I have A29 or A30).

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective devices and procedures in case of emergency:	In case of dispersed vapours or dust in the air, adopt a respiratory protection. These indications are valid both for the working persons and for the emergency interventions.
6.2 Environmental precautions:	Prevent the product from penetrating into the drains, into the surface waters, into the groundwater
6.3 Measures for cleaning/collecting:	Stem with earth or inert material. Collect most of the material and remove the residue with jets of water. Disposal of contaminated material must be carried out in accordance with the provisions of point 13
6.4 Reference to other sections	Any information regarding individual protection and disposal is given in sections 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe Handling:	Manipulate the product after consulting all the other sections of this safety sheet. Avoid dispersal of the product into the environment. Do not eat, drink or smoke during use
Indications in case of fire and explosion	Provide ventilation openings for ceiling wire so as to avoid the possible accumulation of hydrogen on the ceiling.
7.2 Conditions for safe Storage including any incompatibilities:	Keep the product in clearly labelled containers. Keep containers away from incompatible materials by checking section 10. Do not store with alkaline, acidic or oxidizing substances. Protect against moisture.
7.3 Specific use(s):	Information unavailable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Further information on the structure of technical systems:

8.1 Exposure limit values:	NA
Further information	This product contains one or more substances which, in the form of dust, pose a risk in case of inhalation. This is not relevant to the current physical state of the product as it is not in respirable form.
8.2 Exposure controls:	NA
8.2.1 Suitable technical checks	NA
8.2.2 Individual protection measures, such as personal protective equipment:	
8.2.1.a Eye/face protection:	NA
8.2.1.b Hand/skin protection:	NA
8.2.1.c Respiratory protection:	If the threshold value is exceeded (e.g. TLV-TWA) of the substance or one or more of the substances present in the product, it is advisable to wear a mask with type B filter whose class (1, 2 or 3) must be selected in relation to the concentration limit of use. (Ref. norm EN 14387). If there are gases or vapours of a different nature and/or gases or vapours with particles (aerosols, fumes, mists, etc.), combined filters should be provided. The use of respiratory protective equipment is necessary in the event that the technical measures taken are not sufficient to limit the exposure of the worker to the threshold values taken into account. The protection offered by the masks is however limited. In the event that the substance considered to be odourless or its olfactory threshold is higher than its TLV-TWA and in the event of an emergency, wear an open-circuit compressed air breathing apparatus (ref. norm EN 137) or an external air vent respirator (ref. Norm EN 138). For the correct choice of the respiratory protective device, refer to standard EN 529.
8.2.1.d Thermal hazard:	NA
8.2.3 Environmental exposure controls:	Emissions from production processes, including those from ventilation equipment should be monitored in order to comply with environmental legislation

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and

chemical properties:			
Aspect:	Fluid		
Physical state:	Viscous fluid		
Colour:	Translucent		
Odour (pH):	Odourless		
Fusion point/freezing point:	NA	**Relative density:**	1.05 Kg/l
Boiling point/boiling range:	NA	**Solubility:**	Insoluble in water
Flash point:	>200°C		
Flammability (solid, gas):	NA	**Partition coefficient: n-octanol/water:**	NA
	NA		NA
Upper / lower flammability or explosive limits		**Viscosity:**	
Explosive properties:	NA	**Vapour pressure:**	<0,01 kPa
Oxidising properties:	NA	**Vapour density:**	NA
Decomposition temperature:	NA		
Auto-ignition temperature:	>400°C	**Evaporation rate:**	NA
9.2 Other information:			
Miscibility:	NA	**Gas group:**	NA
Fat solubility (solvent — oil to be specified)**:**	NA		
Conductivity:	NA		

10. STABILITY AND REACTIVITY

10.1 Reactivity	There is no particular danger of reaction with other substances under normal conditions of use.
10.2 Chemical stability	The product is stable under normal conditions of use and storage.
10.3 Possibility of dangerous reactions	Dangerous reactions are not foreseeable under normal use and storage.
10.4 Conditions to avoid:	None. However, follow the usual precautions against chemical products.
10.5 Incompatible materials	Acids and bases, strong oxidants, water, moisture, alcohols and amines. Avoid contact of the product with contaminated, corroded or rusty containers as it can increase the formation of hydrogen. The product has a low conductivity and can be charged electrostatically during transfer operations; therefore, it must be avoided the accumulation of electrostatic charges.
10.6 Hazardous decomposition products:	n contact with a source of "mobile hydrogen" (water, alcohol, amines, acids and bases) and in the presence of catalysis agents (acids, bases, amines, alkaline salts, metallic salts, corrosion products) You can have the development of hydrogen sometimes even after a certain period of latency. In the presence of air, the product can form formaldehyde vapour at temperatures above 150 °c, so adequate ventilation is required. Carbon monoxide, carbon dioxide, silicon oxides and formaldehyde are formed for complete combustion.

11. TOXICOLOGICAL INFORMATION

LD/LC50 values relevant for classification:	NA
11.1 Information on toxicological effects	No known episodes of health damage due to exposure to the product. In any case it is recommended to operate in compliance with the rules of good industrial hygiene The preparation may, in particularly sensitive subjects, cause mild health effects by exposure to inhalation and/or skin absorption and/or eye contact and/or ingestion.
11.1.1 Acute toxicity:	The product may form vapour of formaldehyde at a temperature above 150 °C in presence of air. The formaldehyde vapor could be carcinogenic, toxic by inhalation and irritating to the eyes and airways. Exposure limits must be strictly adhered to.
11.1.2 Skin contact:	ND
11.1.3 Eye contact:	The product may form vapour of formaldehyde at a temperature above 150 °C in presence of air. The formaldehyde vapor could be carcinogenic, toxic by inhalation and irritating to the eyes and airways. Exposure limits must be strictly adhered to
11.1.4 Respiratory/skin sensitisation:	The product may form vapour of formaldehyde at a temperature above 150 °C in presence of air. The formaldehyde vapor could be carcinogenic, toxic by inhalation and irritating to the eyes and airways.

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

	Exposure limits must be strictly adhered to. This product contains one or more substances which, in the form of dust, pose a risk in case of inhalation. This is not relevant to the current physical state of the product as it is not in respirable form.
11.1.5 Germ cell mutagenicity:	ND
11.1.6 Carcinogenicity:	The product may form vapour of formaldehyde at a temperature above 150 °C in presence of air. The formaldehyde vapor could be carcinogenic, toxic by inhalation and irritating to the eyes and airways. Exposure limits must be strictly adhered to.
11.1.7 Reproductive toxicity	ND
11.1.8 Specific target organ toxicity (STOT) single exposure:	ND
11.1.9 Specific target organ toxicity (STOT) repeated exposure:	ND
11.1.10 Danger in case of aspiration	This product contains one or more substances which, in the form of dust, pose a risk in the event of aspiration. This is not relevant to the current physical state of the product as it is not in respirable form.

12. ECOLOGICAL INFORMATION

12.1 Toxicity:	ND
Aquatic toxicity	ND
12.2 Persistence and degradability	ND
12.3 Bioaccumulative potential:	ND
12.4 Mobility:	ND
12.5 Results of PBT and vPvB assessment	Based on available data, the product does not contain PBT or VPVB substances in a percentage exceeding 0.1%
PBT:	
vPvB:	
12.6 Other adverse effects:	ND

13. DISPOSAL CONSIDERATIONS

13.1 Waste methods:	Reuse, if possible. Residues of the product as such are to be considered special non-hazardous wastes. Disposal must be entrusted to a company authorized to manage waste, in compliance with national and possibly local legislation
Advice	ND
Uncleaned packaging	Contaminated packaging must be sent to recovery or disposal in compliance with national waste management regulations.
Advice / Recommended detergent	ND

14. INFORMATION ON TRANSPORT

14.1 UN number:	NA
14.2 UN shipping name:	NA
By sea (IMDB):	NA
By road (ADR):	NA
By air (ICAO / IATA):	NA
14.3 Transport hazard class:	NA
Class:	NA
Label:	NA
14.4 Packing group:	NA
14.5 Environmental hazard:	NA
14.6 Special precautions for users:	NA
Kemler number:	NA
EMS number:	NA

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

Stowage category:	NA
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	Not relevant information

15. REGULATORY INFORMATION

15.1 Legislative and regulatory provisions on health, safety and environment specific to the substance or mixture	None
15.2 Evaluation of chemical safety:	A chemical safety assessment has not been developed for the mixture and the substances contained therein

16. OTHER INFORMATION

16.1 List of relevant phrases:	ND
16.2 Training advice:	ND
16.3 Recommended restrictions on use:	Only for professional use
16.4 Further information:	The information contained in this tab is based on the knowledge available to us on the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product. You should not interpret this document as a guarantee of any specific property of the product. Since the use of the product does not fall under our direct control, it is the user's obligation to observe under its own responsibility the laws and regulations in force regarding hygiene and safety. Do not assume responsibility for improper use. Provide adequate training to the personnel involved in the use of chemical products.
16.5 Sources of key data used to compile the Safety Data Sheet:	1.(UE) 1907/2006 (REACH) 2.(UE) 1272/2008 (CLP) 3.(UE) 790/2009 (I Atp. CLP) 4.(UE) 2015/830 5.(UE) 286/2011 (II Atp. CLP) 6.(UE) 618/2012 (III Atp. CLP) 7.(UE) 487/2013 (IV Atp. CLP) 8.(UE) 944/2013 (V Atp. CLP) 9.(UE) 605/2014 (VI Atp. CLP)
16.6 Changes from the previous version (if available):	Totally revised version according regulation (EC) 1907/2006 (REACH).
16.7 Released by:	Micerium S.p.A.