

## 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

<b>1.1 Identification of the substance or preparation</b>	<u>Temp Sep</u> (product code: Tempsep)
<b>1.2 Use of the substance/preparation:</b>	Isolant for composite, ceramic, wax and resin
<b>1.3 Company/undertaking identification:</b>	Micerium S.p.A. Via G. Marconi 83 16036 Avegno (GE) -Italy Phone: +39. 0185. 7887870 fax +39. 0185. 7887970
<b>1.4 Emergency telephone:</b>	Poison Control Center San Martino Hospital (Genova, Italy) Phone: +39 010 352808 (available 24 hours/ 24)

### 2. HAZARDS IDENTIFICATION

**Most important hazards:**

	Target organs
Hexane	Lung, Kidney, Central Nervous System
Stoddard Solvent	Lung, Kidney, Central Nervous System
Trimethylsilica	Lung, Kidney, Central Nervous System
Xylene	Lung, Kidney, Central Nervous System
Pseudocumene	Lung, Blood, Central Nervous System
Benzene	Internal Organ, Blood, Central Nervous System

HMIS Codes:

- Health: 2
- Inflammable: 3
- Reactivity: 1

**Physical – chemical hazards:**



F flammable

**Hazards for human health:**

<b>Eyes:</b>	Product is moderately irritating to the eyes. May cause redness, rearing, and blurred vision.
<b>Skin:</b>	Product is moderately irritating to the skin and may cause deflating or skin sensitivity.
<b>Inhalation:</b>	Can cause nasal and respiratory irritation, Central Nervous System effects including dizziness, weakness, fatigue, nausea, headache, unconsciousness and even death.
<b>Ingestion:</b>	Can cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Aspiration of material into the lungs can cause fatal chemical pneumonitis.
<b>Over-exposure signs and symptoms:</b>	Irritation
<b>Chronic effects:</b>	Exposure may damage peripheral nerve tissue and result in peripheral neuropathy. May cause kidney damage or Central Nervous System effects. Pre-existing disorders may be aggravated by solvent.

**Hazards for environment:**

None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>3.1 Main ingredients:</b>	Resin solution, content Hexane.
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### 3.2 Dangerous ingredients:

Common name for the compound	CAS Number	Content	Frases R*
Hexane	110-540-3	<89%	
Stoddard Solvent	8052-41-3	<2.5%	
Trimethylsilica	68988-56-7	<2.2%	
Xylene	1330-20-7	<0.8%	
Pseudocumene	95-63-6	<0.2%	
Benzene	71-43-2	<0.006%	

\* Full text of R and S-Phrases can be found under heading 16.

## 4. FIRST AID MEASURES

<b>Immediate medical attention need:</b>	If it contacts eyes or there are inhalation and digestion.
<b>Measure to be adopted when:</b>	
- It contacts eyes:	Immediately flush thoroughly with large amounts of water for least 15 minutes. Get medical attention.
- It contacts skin:	Wash affected area immediately with large amounts of soap and water. Remove and wash contaminated clothing before reuse. Contact a physician if irritation occurs.
- Inhaled:	Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.
- Ingested:	Don't induce vomiting. Give large quantities of water. Call a physician immediately. Never give anything by mouth to an unconscious person.

## 5. FIRE-FIGHTING MEASURES

<b>General information:</b>	Flammable class : 1A
<b>Suitable extinguishing media:</b>	Water fog; dry chemical, Carbon dioxide, or foam;
<b>Extinguishing media which shall not be used for safety reasons:</b>	NA
<b>Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:</b>	NA
<b>Special protective equipment for fire-fighters:</b>	Either atmosphere-supply or air-purifying respirators should be available for fire fighters. (20 CFR 1910.134)

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Avoid contact with material. Persons not wearing proper protective equipment should be excluded from the area until clean up is complete.
<b>Environmental precautions:</b>	Dike area to prevent spill from spreading.
<b>Measures for cleaning/collecting:</b>	Scoop up excess to recovery containers. Absorb remnant on non-combustible material such as clay and place into containers for disposal.

## 7. HANDLING AND STORAGE

<b>7.1 Handling:</b>	Avoid skin and eye contact. Avoid breathing vapour, mist or fumes. Wash with soap and water before eating, drinking or using toilet facilities. Observe conditions of good industrial hygiene and safe working practice.
<b>7.2 Storage:</b>	Store under cool, dry conditions and away from open flames and high temperatures. Ensure that all containers are properly labelled to prevent accidental ingestion. Reseal partly used containers.
<b>7.3 Specific use(s):</b>	None

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure limit values:

Common name for the compound	ACGIH/TLV	OSHA/PEL
Hexane	50ppm	50ppm
Stoddard Solvent	100ppm	100ppm
Trimethylsilica	NA	NA
Xylene	100ppm	100ppm
Pseudocumene	NA	NA
Benzene	10ppm	10ppm

### 8.2 Exposure controls: DO NOT INGEST FOR ANY REASON

#### 8.2.1 Occupational exposure controls:

- 8.2.1.a Respiratory protection:** Not normally necessary unless the material is being used in such a way as to produce dust, mist, vapour, fumes, or smoke, in which a case NIOSH approved respiratory protection should be used.
- 8.2.1.b Hand protection:** Impervious gloves, neoprene or rubber gloves.
- 8.2.1.c Eye protection:** Splash proof goggles or safety glasses with side shields.
- 8.2.1.d Skin protection:** Clean, body covering clothing and footwear.

#### 8.2.2 Environmental exposure controls:

Ventilation should be sufficient to control any dust, mist, vapour or fumes produced by processing or handling method. Breathing of vapour must be avoided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 General information:

Physical state:	Liquid
Colour:	Clear
Odour:	ND

### 9.2 Important health, safety and environmental information:

pH:	ND	Relative density:	5.8 lbs/gal 0.70
Boiling point/boiling range:	ND	Solubility:	
Flash point:	- 31.7°C (-25F – for product or lowest flash point ingredient)	Water solubility:	ND
Flammability (solid, gas):	ND	Partition coefficient: n-octanol/water:	ND
Explosive properties:	ND	Viscosity:	ND
Oxidising properties:	ND	Vapour density:	ND
Vapour pressure:	ND	Evaporation rate:	ND

### 9.3 Other information:

Miscibility:	ND	Melting point/melting range:	ND
Fat solubility (solvent — oil to be specified):	ND	Gas group:	ND
Conductivity:	ND	Auto-ignition temperature	ND

## 10. STABILITY AND REACTIVITY

- 10.1 Conditions to avoid:** This product is stable under normal storage conditions. Unstable at elevated temperatures.
- 10.2 Materials to avoid:** Strong oxidizing agents, lewis or mineral acids, mineral and organic bases.
- 10.3 Hazardous decomposition products:** Oxides of Carbon and silica and other unknown organic compounds.
- 10.4 Hazardous Polymerization:** ND

## 11. TOXICOLOGICAL INFORMATION

LD/LC50 values relevant for classification: ND

### 11.1 Immediate effects due to:

- 11.1.1 Skin/ eye contact:** Product is moderately irritating to the eyes and to skin. May cause redness, tearing, and blurred vision and may cause defatting or skin sensitivity.
- 11.1.2 Inhalation:** Can cause nasal and respiratory irritation, Central Nervous System effects including dizziness, weakness, fatigue, nausea, headache, unconsciousness and even death.
- 11.1.3 Ingestion:** Can cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Aspiration of material into the Lungs can cause fatal chemical pneumonitis.

### 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:** Exposure may damage peripheral nerve tissue and result in peripheral neuropathy. May cause kidney damage or Central Nervous System effects. Pre-existing disorders may be aggravated by solvents.:

**11.4 Sensitizing effects:** May cause skin allergy.

**11.5 Carcinogenicity, mutagenicity and reproductive toxicity:** The benzene is a carcinogen. No reproductive toxicity.

**Other toxicological information:** NA

## 12. ECOLOGICAL INFORMATION

**12.1 Ecotoxicity:** ND

**12.2 Mobility:** ND

**12.3 Persistence and degradability:** ND

**12.4 Bioaccumulative potential:** ND

**12.5 Results of PBT assessment** ND

**12.6 Other adverse effects:** Please refer to Section I thru XI

## 13. DISPOSAL CONSIDERATIONS

**Recommendation:** Waste Disposal Method: Dispose of waste in accordance with federal, state and local regulations.

**European waste catalogue:**

**Unclaned packaging:**  
**Recommendation :**

**Recommended cleansing agent:** NA

## 14. TRANSPORT INFORMATION



Packaging group: II UN-Number: 1866 Risk Class: 3 (F) Flammable liquids

**14.1 By sea (IMDG):** See up.

**14.2 By road (ADR):** See up.

**14.3 By rail (RID):** See up.

**14.4 By Air (ICAO / IATA):** See up.

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

## 15. REGULATORY INFORMATION

Cal Safe Drinking Water & Toxic Enforcement Act or 1986: This product may also contain traces of Prop. 65 listed chemicals as impurities. However, none are used as ingredients

CFRCLA - 40 CFR302.4: Releases exceeding the reportable quantity (RQ) must be reported to the national response center, (800) 424 - S802.

OSHA - 29 CFR :-302.4: According to OSHA criteria the following components are hazardous.

RCRA - 40 CFR 261.33: Product is a D001 ignitable Liquid waste. The BDAT is incineration, fuels substitution or recovery.

SARA TITLE III 52 CFR 13378, 52 CFR 21152

Common name for the compound	NO. RQ (lbs) (*1)	TPQ(lbs) (*2)	SEC. 313 (*3)	313 CAT. OR (*4)	311/312 (*5)
Hexane	1pound	NA	Listed	None	H1, H2, H3

Other SARA substance (s), if present are all below the de minimus concentration (s).

\* 1= Reportable quantity of extremely hazardous substance, Sec. 302

\*2 = Threshold planning quantity, extremely hazardous substance, Sec. 302

\*3 = Toxic chemical, Sec. 313 (individual chemical listed)

\*4 = Toxic release inventory farm category Sec. 313 (40 CFR 372.65 C)

\*5 = Hazard category for SARA Sec. 313/312 reporting

H1= Immediate (acute) health hazard

P3= Fire hazard

H2 = Delayed (chronic) health hazard

P4 = Sudden pressure release hazard

P5 = Reactive hazard

TSCA - 44 CFR 59764

All components listed.

Common name for the compound	Quantity	VP mm HG	Gms./l. @ 20 degrees C
Hexane	<89%	125	623
Stoddard	<2.5%	2	20
Xylene	<1.0%	5.1	9

## 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 compile the Safety Data Sheet: The data herein dates to the product named and is based upon information that Micerium S.p.A. believes to be reliable and accurate. No warranty expressed or implied is intended. Users of this product have the responsibility to determine the suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. This information is offered solely for your consideration and interpretation.

16.6 Changes from the previous version (if available): NA

16.7 Released by: Micerium S.p.A.