

**ACROSIL - CATALIST (CA)**  
**ACTIVATOR GEL – CONDENSATION (POLY SILOXANE)**  
**MATERIAL SAFETY DATA SHEET**

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**I- MANUFACTURER:**  
Marlic Medical Industries Co.  
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**III- PRODUCT:** ACROSIL (FOR HIGH PRECISION DENTAL IMPRESSION)

**IV- CHEMICAL NAME:** POLY SILOXANE

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

>> PREPARATION

Chemical nature: Mixtures of polydimethyl siloxanes, inert mineral fillers and organotin compounds.

Components contributing to the hazard: Alkylstannosiloxane (CAS: 93925-42-9): 10 to 25% - EC  
Classification: Xi-R 10-36.  
Polysilicic acid ester (CAS: 68412-37-3): 2.5 to 10% - EC  
Classification: - - R 10.

**3. HAZARDS IDENTIFICATION**

**MOST IMPORTANT HAZARDS:**  
**Adverse human health effects** Irritating to skin.

**Physical and chemical hazards:**  
**-Fire or explosion** Contains volatile constituents – flammable in air.

**Classification/Specific hazards:** According to EC criteria, this product is classified as:  
- FLAMMABLE.  
- IRRITANT.  
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**4. FIRST - AID MEASURES**

- **INHALATION:** Move the affected person away from the contaminated area and into the fresh air.  
Give oxygen or oxygen enriched air (to be given by an authorized person).  
Call a doctor.  
If breathing difficulties persist:
- **SKIN CONTACT:** Wipe off as much as possible (using a clean, soft, absorbent material).  
Immediately remove contaminated clothing or footwear.  
Wash immediately with plenty of soap and water.  
If the skin becomes inflamed (redness, irritation...) ,call a doctor.
- **EYES CONTACT:** Consult and eye specialist immediately, even if there are no visible injuries.  
IMMEDIATELY rinse with plenty of water for a prolonged period, (at least 15 minutes)  
whilst keeping the eyes wide open.
- **INGESTION:** NEVER attempt to induce vomiting.  
Do not allow the person to drink milk or alcohol.  
Transport to hospital.

## 5. FIRE FIGHTING MEASURES

- **Extinguishing Media:**
- **Suitable** Water spray.  
Foam.  
Powders.  
Carbon dioxide (CO<sub>2</sub>).
- **Not suitable** Strong water jet.
- **Specific hazards:** During combustion:  
Toxic and highly flammable gases are released, which increase fire/explosion hazards.
- **Specific fire fighting methods:** Cool down the containers/equipment exposed to heat with a water spray.
- **Protection of fire – fighters:** Self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** DO NOT attempt to take action WITHOUT suitable protective equipment.  
- filtering respiratory protective device.  
Eye/face protection (safety glasses + visor).  
Personal protective equipment:
- **Environmental Precautions:** DO NOT discharge into drains or rivers.
- **Methods for cleaning up:**
- **Recovery** Collect up the product and place it in a spare container: - suitably labeled.  
Keep the recovered product for subsequent disposal.
- **Neutralization** - sand or inert absorbent.  
Neutralize non – recovered product with:
- **Cleaning /Decontamination** Then wash with plenty of water.  
Decontaminate and wash the floor with an appropriate self-emulsifying solvent.
- **Disposal** Dispose of contaminated material at an authorized site.

## 7. HANDLING AND STORAGE

- **HANDLING:**
- **Technical measures** Ventilation.
- **Measures** Avoid contact with moisture/humidity.
- **STORAGE:**
- **Technical measures** Does not require any specific or particular technical measures.
- **Storage conditions**
- **Recommended** Store:  
- in a cool, well – ventilated area.  
-the container tightly closed.  
-protected from humidity.
- **To be avoided** Store away from incompatible materials.
- **Incompatible products** Strong oxidizing agents.
- **Packaging:** -Polyethylene liner in a metal drum varnished with epikote.
- **Packaging materials**
- **Recommended** Coated steels.  
Plastic materials (polyethylene, polypropylene).
- **Not suitable** Materials which are not solvent-resistant.

## 8. EXPOSURE CONTROLS /PERSONAL PROTECTION

- **Engineering measures:** Ventilation.
- **Control parameters:**
- **Occupational exposure limits limits (U.S.A./A.C.G.I.H.)** TLV (TWA): 0.1 mg/m<sup>3</sup>.  
TLV (STEL): 0.2 mg/m<sup>3</sup>.

- (expressed as Sn).  
Organotin compounds:
- **personal protective equipment:**
  - **Respiratory protection** In the event of insufficient ventilation:  
Respiratory protective device with a gas filter.  
If the ventilation is suitable, it is not essential to wear respiratory equipment.
  - **Hand protection** Protective gloves made of PVC.
  - **Eye protection** Goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:**
- **Physical state** Slightly runny paste.
- **Color** Red.
- **Odor:** Mint.
- **pH:** Not applicable
- **Specific temperatures:**
- **Flammability characteristics**
- **Flash point** 21°C (closed cup, according to method ASTM D-56).
- **Oxidizing properties:** Non oxidizing material according to EC criteria.
- **Specific gravity:** 0.98 g/cm<sup>3</sup> at 25°C.
- **Solubility:**
- **In water** Practically insoluble.
- **In organic solvents** Miscible (in all proportions) with:
  - chlorinated solvents.
  - Aliphatic hydrocarbons.
  - aromatic hydrocarbons.

## 10. STABILITY AND REACTIVITY

- **Stability:** Stable at room temperature.
- **Hazardous reactions:**
- **Materials to avoid** -strong oxidizing agents.
- **Hazardous decomposition products** Reacts slowly on contact with water, releasing:  
Flammable vapors which may generate fire or explosion hazards.  
-Quantity potentially released: 15% of product weight. (Ethanol).

## 11. TOXICOLOGICAL INFORMATION

- **Acute toxicity:** (Unpublished internal reports)  
LD 50 oral (Rat): >2000 mg/kg.
- **Local effects:** Irritating to the skin.  
May cause irritation to the digestive tract.

## 12. ECOLOGICAL INFORMATION

- **MOBILITY:** Slightly soluble product, readily forms deposits.
- **Precipitation**
- **Expected behaviour of the product** Ultimate destination of the product: SOIL and SEDIMENT.
- **ECOTOXICITY:**
- **Effects on the aquatic environment** No specific information available, however, by analogy, this product is not considered to present any particular risk to the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

- **WASTE FROM RESIDUES:**
- **Prohibition** Discharging waste into rivers and drains is forbidden.
- **Destruction / Disposal** Dilute with a flammable solvent and incinerate at a licensed installation.
- **CONTAMINATED PACKAGING:** Conform to current legislation, regulations and orders.

- **De contamination/cleaning** Allow it to drain thoroughly.  
Rinse with an appropriate solvent.
- **Destruction/Disposal** Recover the solvent used for rinsing and incinerate at a licensed site.  
Dispose of at an approved site.
- **NOTE:** The user's attention is drawn to the possible existence of local regulations regarding disposal.

#### 14. TRANSPORT INFORMATION

- **INTERNATION REGULATIONS:**
- **Land**
- **Rail/road (RID/ADR)** Class:3.  
Packing group: II.  
Hazard identification number: 338.  
UN number: 1992.  
Labeling: 3+6,1.  
Description: 1992 LIQUIDE IFLAMMABLE, TOXIQUE, N.S.A (continent de l'ESTER DE l'ACIDE POLYSILICIQUE et de l' ALKILSTANNOSILOXANE), iii,adr (OU rid).
- **Sea (IMO/MDG)** Class: 3.  
UN Number: 1992.  
Packing group: II.  
Marine pollutant: yes.  
Labeling: 3+6,1.  
Pae: 3346-1.  
Emergency schedule (EmS): 3-07.  
Medical First Aid Guide (MFAG).s.s. 4.2.  
Description: FLAMMABLE LIQUID, TOXIC,N.O.S. (contains POLYSILICIC ACID WSTER and ALKYLSTANNOSILOXANE).
- **Air (ICAO-IATA)** Class:3.  
UN number: 1992.  
Labeling: 3+6,1.  
Packing group: II.  
Passenger aircraft: Packing instruction: 306 Quantity: 1L.  
Cargo aircraft: Packing instruction: 307 Quantity: 60 L.  
Subsidiary risk: 6.1.  
Description: FLAMMABLE LIQUID, TOXIC,N.O.S (contains POLYSILICIC ACID ESTER and ALKYLSTANNOSILOXANE).
- **NOTE** The above regulatory prescriptions are those valid on the date of publication of this sheet.  
Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

#### 15. REGULATORY INFORMATION

- **LABELLING:**
- **EC regulations** Mandatory labeling (self-classification) of hazardous preparations:  
Applicable.
- **classifications/symbols** - IRRITANT (Xi)
- **R Phrases** - FLAMMABLE (NO symbol).  
R 10: Flammable.  
R 36: Irritating to eyes.  
R 38: Irritation to skin.
- **S phrases** S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S 29: Do not empty into drains.  
S 39: Wear face protection.
- **NOTE** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the Safety Data Sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

#### 16. OTHER INFORMATION

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