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## Material Safety Data Sheet

Conforms to EU Directive 91/155

### 1. Identification of Substance

#### Product Details

Trade name: **Ecwa Sil DF10**Product code: **FEcSil10DF**

Application of the substance/preparation: Silicone/Silicate Defoamer emulsion.

#### Manufacturer/Supplier:

Ecwamix Chemical Systems cc  
3 Granville Ave.  
Lea Glen  
Roodepoort, Gauteng  
South Africa

#### Information:

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#### Emergency information:

Office hours: +27 011 472 2256

### 2. Composition/information on components

#### Chemical characterization

Description: Polydimethylsiloxane (Silicone) &amp; Silica in water emulsion

Dangerous components: None

### 3. Hazards Identification

Hazard designation: Not applicable

Information pertaining to particular dangers for man and environment: N/A

### 4. First Aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of symptoms.

After skin contact: Immediately wash with soap and water and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: In case of persistent symptoms consult doctor.

### 5. Fire Fighting measures

Not Flammable



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### 6. Accidental release measures

**Personal safety precautions:** Wear protective clothing.

**Measures for environmental protection:** Should not be discharged into water courses without prior treatment (Demulsify, collect solids & incinerate. Or by biological purification plant).

**Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, sawdust, cotton waste, etc ).

Smaller amounts of contaminated binding material can be disposed of with municipal waste.

### 7. Handling and Storage

#### Handling

**Information for safe handling:** No special measures required.

**Information about protection against explosion & fire:** No special measures required.

#### Storage

**Requirements to be met by storerooms and containers:** No special requirements.

**Information about storage in a common storage facility:** None

**Further information about storage conditions:**

Protect from frost.

Protect from heat and direct sunlight.

**Storage class:**

**Classification according to regulation on inflammable liquids (VbF):** None

### 8. Exposure Controls & Personal Protection

**Additional information about design of technical systems:** No further data; see item 7.

**Components with critical values that require monitoring at the workplace:**

This product does not contain any relevant quantities of materials with critical values which require monitoring at the workplace.

#### 63148-62-9 Polydimethylsiloxane (Silicone) Fluids

No known applicable information.

**Additional information:** Information valid at the time of review of MSDS.

#### Personal protective equipment

##### General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.

**Respiratory protection:** Not required

**Protection of hands:** Protective gloves.

**Eye protection:** Safety glasses recommended during refilling.

**Body protection:** Protective work clothing.



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### 9. Physical & Chemical properties

<b>Physical state:</b>	Liquid, Silicone fluid in water emulsion
<b>Appearance:</b>	White, opaque
<b>Melting point:</b>	N/A
<b>Boiling point:</b>	ca. 100°C
<b>Flash Point:</b>	N/A
<b>Explosive Properties:</b>	None
<b>Vapor pressure:</b>	Not determined
<b>Relative density:</b>	0.99-1.01 g/cm <sup>3</sup>
<b>Solubility:</b>	Dispersable in water
<b>pH value at 20°C:</b>	7.0 - 9.0
<b>Organic Solvent content:</b>	None
<b>Solids Content:</b>	11 - 14%

### 10. Stability & Reactivity

<b>Stability:</b>	The product is stable
<b>Conditions to avoid:</b>	Excessive heat (+40°C) and freezing. Repeated freezing and thawing
<b>Minimum Shelf life:</b>	3 months from date of manufacture
<b>Dangerous reactions:</b>	None known
<b>Dangerous products of decomposition:</b>	None if used as recommended

### 11. Toxicological Information

**Acutetoxicity:**

LD/LC<sub>50</sub> values that are relevant for classification:

	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Polydimethylsiloxane		No known applicable information.		

**Primary irritant effect:**

**Skin contact:** No immediate irritant effect.

**Eye contact:** Irritant effect.

**Sensitization:** No sensitizing effect known.

### 12. Ecological Information

**Information about elimination (persistence and degradability):**

**Method:**

**Analysing method:** See note below

**Degree of elimination:** > 80 %

**Other information:**

The product is eliminated in waste water treatment plants by physical and biological means.

**Ecotoxicological effects:**

Polydimethylsiloxane degrades in soil abiotically to form smaller molecules. These in turn are either biodegraded in soil or volatilized into the air where they are broken down in the presence of sunlight. Under appropriate conditions, the ultimate degradation products are inorganic silica, carbon dioxide and water vapour. Due to the very low water solubility of this product, standard OECD protocols for ready and inherent biodegradability are not suitable for measuring the biodegradability of this product. The product is removed >80% during the sewage treatment process.

**Additional ecological information:**

**AOX indication:**

The product does not contain substances, which can influence the AOX of waste water.

**Heavy metals and compounds** (according EC guideline NO. 76/464 EC): None



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### 13. Disposal Considerations

Always consult local legislative bylaws. If in doubt hand over to a specifically authorized hazardous waste treatment plant.

**Contaminated packaging:**

**Recommendation:** Packaging can be reused or recycled after cleaning.

**Recommended cleaning agent:** Water, if necessary with cleaning agent.

### 14. Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADRIR

Class: -

Maritime transport IMDG/GGVS:

IMDG Class: -

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

**Transport/Additional information:** Not hazardous for transport according to A.M. regulations.

### 15. Regulatory information

**Designation according to EC guidelines:**

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (CHIP).

Observe the normal safety regulations when handling chemicals.

**National regulations**

**Classification according to VbF:** None

**Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

### 16. Other information

**Notice to Reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Data specification sheet issued by:** **Ecwa mix** Chemical Systems

**Contact:** Patrick Roux