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### 1.- Identification of the preparation and of the company

- 1.1 - **Name:** **S16**
- 1.2 - **Product Applications:** To prevent foam formation (Anti-Foam)
- 1.3 - **Producer:** **DIQUECINCO 2013, SL**  
Calle Arago, 284 bis  
08007 Barcelona (Spain)
- 1.4 - **Responsible for MSDS:**
- 1.5 - **Emergency telephone:**

### 2.- Hazards identification

- 2.1 - **Classification of the product:**  
The product does not require any labels warning of danger in accordance with the criteria of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).
- 2.2 - **Symbols and Risk Phrases:**  
The product does not require any labels warning of danger in accordance with the criteria of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).
- 2.3 - **Hazards to health:**  
The product does not require any labels warning of danger in accordance with the criteria of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

### 3.- Composition / Information on components

- 3.1 - **Chemical Description:**  
Alcohols.
- 3.2 - **Hazards Components:**  
Not applicable

### 4.- First Aid.

Remove contaminated clothing.

- 4.1 - **Eye Contact:**  
Flush eyes abundantly for 15 minutes with running water with the eyelids open.
- 4.2 - **Contact with skin:**  
Wash affected areas with abundant soap and water.
- 4.3 - **Ingestion:**  
Rinse mouth and then drink plenty of water.
- 4.4 - **Inhalation:**  
Remove the affected person to fresh air. If breathing is difficult, administer artificial respiration or give oxygen. Seek medical assistance.

**5.- Firefighting measures****5.1 - Fire-fighting media:**

Foam, water spray or powder fire extinguishers.

**5.2 - Special hazards of exposure to fire:**

Smoke/fumes formation. In case of fire groups of substances mentioned can be released.

**5.3 - Personal Protective Equipment:**

Use a self-contained breathing apparatus (SCBA).

**6.- Measures in case of accidental spillage****6.1 - Personal precautions:**

Use personal protective clothing. Information concerning personal protection: see section 8

**6.2 - Environmental precautions:**

Retain contaminated water, including fire-extinguishing water in case it is contaminated. Prevent from entering sewers, surface water or groundwater.

**6.3 - Methods of cleaning:**

Small Spills: Wipe the surface with absorbent materials. Place the waste in closed containers for later disposal.

Large spills: Pump the product.

**7.- Handling and storage.****7.1 - Handling:**

No special measure is recommended, if the product is handle properly.

**7.2 - Storage:**

Appropriate materials: stainless steel 1.4401 (V4), 1.4301 stainless steel (V2), aluminum, high density polyethylene (HDPE), carbon steel (iron), tin (Tin), low density polyethylene (LDPE), glass, coated with zinc.

Other specifications storage conditions: keep container tightly closed and in a cool place.

The product is not damaged by low temperature or frost. Protect from temperatures above 70° C

The product properties are modified irrevocably if the temperature limit is exceeded.

**7.3 - Specific Uses:**

For known uses of the product.

To prevent foam formation (Anti-Foam).

**8.- Exposure controls / personal protection.****8.1 - Exposure Limit Values:**

None.

**8.2 - Personal Protective Equipment.****8.2.1- Respiratory protection:**

Protection of the respiratory airway in case of formation of vapors/aerosols.

Particle filter with medium efficiency for liquid and solid particles (example: EN 143 or 149, type P2 or FFP2).

**8.2.2 - Protection of hands:**

Protective gloves resistant to chemical products (EN 374).

Suitable materials for a brief contact and/or spray (recommended: at least protection index 2, corresponding to > 30 minutes permeation time according to EN 374), butyl rubber (butyl) - 0.7 mm thick coating of nitrile rubber (NBR) - 0.4 mm coating thickness. Due to the wide variety of types, you must take into account the manufacturer's instructions. It should be noted, that, in practice, the daily use of chemical-resistant protective gloves is clearly inferior, because many influential factors (e.g., temperature), the time determined by the permeability tests.

**8.2.3 - Eye protection:**

Use safety glasses with side-shields (glasses with frame) (EN 166).

**8.2.4 - Skin protection:**

Wear standard work garments.

**8.3 - Additional Information:**

General safety and hygiene measures.

Do not breathe vapor/spray.

Avoid contact with skin, eyes and clothing.

Handle in accordance with the safety rules for chemical products.

Wearing of closed work clothing is an additional requirement in the indications on personal protective equipment.

<b>9.- Physical and chemical properties</b>
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**9.1 - Overview:**

Characteristic odor of the product.

Colorless Liquid.

**9.2 - Important health, safety and environmental information:**

pH	approx. 7.0 (50 g/L, 23° C)
Boiling Point	>200° C
Flammable Point	>100° C
Auto-Ignition temperature	>200° C
Relative density (water = 1) at 20° C	0.98 g/cm <sup>3</sup>
Solubility in water	not soluble
Log Kow	<2,7
Viscosity, dynamic	250 mPa.s (23° C)

<b>10.- Stability and reactivity</b>
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**10.1 - Stability:**

The product is stable if the rules and indications for storage and handling are taking into consideration.

**10.2 - Reactivity:**

No dangerous reaction if the rules and indications for storage and handling are taking into consideration.

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**10.3 - Dangerous reactions:**

Hazardous reactions will not occur during storage and handling if it's done according to the regulations.

**10.4 - Conditions to avoid:**

See section #7 – Handling and Storage.

**10.5 - Materials to avoid:**

Substances to avoid: caustic agents, halogens, alkalis, acids, chemical reagents.

**10.6 - Hazardous decomposition of the products:**

No hazardous decomposition of the products will occur if the rules and indications for storage and handling are taking into consideration.

**11.- Toxicological information**

**11.1 - Acute toxicity:**

LD50 rat (oral ingestion): > 10,000 mg/kg

**11.2 - Irritation:**

Skin corrosion/irritation: not irritating

**12.- Ecological information.**

**12.1 - Ecotoxicity:**

**12.1.1 - fish toxicity:**

LC50 (96 h) 140 mg/l, *Oncorhynchus mykiss* (static)

LC50 (96 h) > 1000 mg / l, *Cyprinodon variegatus* (static)

**12.1.2 - Aquatic invertebrates:**

EC50 (48 h) > 100 mg / l *Daphnia magna* (Directive 92/69/EEC, C.2, static) It has been tested only a concentration limit (LIMIT test).

**12.1.3 - Microorganisms / Effect on activated sludge:**

> 2,000 mg/l (DEV-L2) during a spill in small concentrations there are not expected variations in the function of activated sludge from a purification plant biologically adapted

**12.2 - Mobility in the soil:**

The substance does not evaporate into the atmosphere from the water surface. An absorption in the solid particles of the soil is predictable.

**12.3 - Persistence and degradability:**

**12.3.1 - Assessment of biodegradation and elimination (H2O):**

Due to its low solubility in water, the product can be separated largely by mechanically means in biological sewage treatment plants.

**12.3.2 – Bioaccumulation Potential:**

Accumulation in organisms is not expected.

**12.4 - Results of PBT and vPvB assessment:**

According to Annex XIV of the Regulation (EC) No. 1907/2006 concerning the registration, evaluation, authorization and restriction of chemicals substances (REACH). The product does not contain any substances that meet the PBT criteria (persistent/bioaccumulable/toxic) or the vPvB (very persistent/very bioaccumulable) self-classification criteria.

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#### **12.5 - Additional Indicators:**

Chemical oxygen demand (COD): 2.130 mg/g.

Absorbable organically bound halogen (AOX): This product does not contain any organic halogen compound linked to its structure.

Other ecotoxicological information: The product should not be disposal into the sewer without prior treatment.

#### **13.- Terms of elimination**

##### **13.1 - Waste Disposal:**

Take into account the local regulations, it should be disposed in a landfill or in a proper incineration plant.

##### **13.2 - Disposal of containers:**

Uncontaminated containers can be re-used.

Not reusable containers, they must be disposed as the product.

#### **14.- Transport information.**

Transport in sealed containers that are upright and secure.

Ensure that persons transporting the product know what to do in case of an accident or spillage.

##### **14.1 - Transport by Road (ADR):**

UN Number: not dangerous good according to the criteria of the Regulation of transport.

##### **14.2 - Sea transport (IMDG):**

UN Number: not dangerous good according to the criteria of the Regulation of transport.

##### **14.3 - Rail transport (RID):**

UN Number: not dangerous good according to the criteria of the Regulation of transport.

##### **14.4 - Air transport (ICAO/IATA):**

UN Number: not dangerous good according to the criteria of the Regulation of transport.

#### **15.- Other Information**

##### **15.1 - Additional Recommendations:**

Observe the legal ordinances on chemicals products.

##### **15.2 - Technical point of contact:**

In regards to the product: Technical Department. Phone

In regards to the Material Safety Data Sheet: Technical Department. Phone

##### **15.3 - Review of the Material Safety Data Sheet:**

All the points in this Material Safety Data Sheet has been reviewed.

##### **15.4 - Further information.**