

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

- 1.1 - **Name:** **SBH**
- 1.2 - **Product Applications:** (Anti-Embedment) to eliminate incrustations in all types of pipes from the water in crude oil with very high in dissolved salts.
- 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:**  
Irritant.  
Harmful.  
Corrosive to metals.  
It may harm the fetus.
- 2.2 - **Symbols and Risk Phrases:**  
Warning word: Attention.



- 2.3 -. **Hazards to health:**
- 2.3.1 - Inhalation:**  
Harmful if inhaled. (H332)
- 2.3.2 - Eye Contact:**  
Causes serious eye irritation. (H319)
- 2.3.3 - Others:**  
It can be corrosive for metals. (H290)  
It may harm the fetus. (H361d)

### 3.- Composition / Information on components

- 3.1 - **Chemical Description:**  
Acetates and water.
- 3.2 - **Hazards Components:**  
Acetates

#### 4.- First Aid.

Remove contaminated clothing.

**4.1 - Eye Contact:**

Flush eyes abundantly for 15 minutes with running water with the eyelids open, subsequent control by the ophthalmologist.

**4.2 - Contact with skin:**

Wash affected areas with abundant soap and water.

**4.3 - Ingestion:**

Rinse mouth and then drink plenty of water, approx. 200-300ml. Seek medical assistance.

**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: Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Dispose the material collected in a regulatory manner.

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), glass, low density polyethylene (LDPE).

 <b>TM</b>	Material Safety Data Sheet <b>SBH</b>	Page 3 of 8
---	--	-------------

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

**7.3 - Specific Uses:**

For known uses of the product.

(Anti-Embedment) specially designed to eliminate incrustations in all types of pipes from the water in crude oil with very high in dissolved salts.

**8.- Exposure controls / personal protection.**

**8.1 - Exposure Limit Values:**

Value of VLA-EC 2 mg/m<sup>3</sup> (LEP (Spain))

**8.1.2.- PNEC**

Fresh Water: 6.4 mg/l, Sea water: 0.64 mg/l

Sporadic release: 3.1 mg/l, Wastewater Treatment: 51 mg/l

Sediment (freshwater): 23 mg/kg, (seawater): 2.3 mg/kg, (soil): 0.853 mg/kg

**8.1.3.- DNEL**

Worker: Short term exposure. Local or systemic effects, Inhalation: 2.5 mg/m<sup>3</sup>

Worker: Long term exposure. Local and systemic effects, Inhalation: 2.5 mg/m<sup>3</sup>

Consumers: Short-term exposure. Local or systemic effects, Inhalation: 2.5 mg/m<sup>3</sup>

Consumer: Long term exposure. Local and systemic effects, inhalation: 1 mg/m<sup>3</sup>

Consumer: Long term exposure. Systemic effects, Ingestion: 1.2 mg/kg BW/day

**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 (for 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 6, corresponding to > 480 minutes permeation time according to EN 374: e.g., nitrile rubber (0.4 mm), Chloroprene rubber (0.5 mm), PVC (0.7 mm), among others. 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.

## 9.- Physical and chemical properties

- 9.1 - Overview:**  
Characteristic odor of the product.  
Yellowish Liquid.
- 9.2 - Important health, safety and environmental information:**
- |                                       |                               |
|---------------------------------------|-------------------------------|
| pH                                    | 11 - 12 (10 g/L, 23°C)        |
| Boiling Point                         | 100°C (1013 hPa)              |
| Flammable Point                       | >100° C                       |
| Flammability                          | No inflammable                |
| Auto-Ignition temperature             | > 200°C (50% (m))             |
| Vapor pressure                        | Approx. 20 mbar (20°C)        |
| Relative density (water = 1) at 20° C | 1.27 – 1.31 g/cm <sup>3</sup> |
| Solubility in water                   | soluble                       |
| Log Kow                               | < -2.0                        |
| Viscosity, dynamic                    | Approx. 25 mPa.s (23°C)       |
| Explosion risk                        | Not applicable                |
- 9.3 - Additional information:**  
Miscibility with water non-miscible.

## 10.- Stability and reactivity

- 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.  
Metal corrosion: corrosive effect to the: aluminum.
- 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: Amphoteric metals, light metals.
- 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:**
- 11.1.1 – Assessment of acute toxicity:**  
Moderate toxicity after a short term inhalation. After a single ingestion is practically nontoxic. Practically non-toxic by a single skin contact.
- 11.1.2 - Experimental/calculated data:**  
LD50 rat (by oral ingestion): > 2,000 mg / kg (OECD Directive 401)

The product has not been tested. The statement has been derived from substances or products of a similar structure or composition.

LC50 rat (by inhalation): 1000 - 5000 mg / m<sup>3</sup> 6 h (OECD Directive 403)

The product has not been tested. The statement has been derived from substances or products of a similar structure or composition.

LD50 rat (dermal): > 2,000 mg / kg (OECD Directive 402)

The product has not been tested. The statement has been derived from substances or products of a similar structure or composition.

## 11.2 - Irritation:

### 11.2.1 - Assessment of irritating effects:

Not irritating to the skin. In contact with the eyes causes irritation.

## 11.3 - Respiratory sensitization/skin:

Maximization test in guinea pig: the product is not sensitizing. (OECD Directive 406)

Buehler test in guinea pig: the product not sensitizing. (OECD Directive 406).

The product has not been tested. The statement has been derived from substances or products of a similar structure or composition.

## 11.4 - Mutagenicity in germ cell:

### 11.4.1 - Assessment of mutagenicity:

The substance presented no mutagenic effects in bacteria. The substance has not presented signs of mutagenic in mammalian cell cultures.

## 11.5 - Carcinogenicity:

### 11.5.1 - Assessment of carcinogenicity:

No data are available concerning carcinogenic effects. The chemical structure does not suggest such an effect.

## 11.6 - Reproductive toxicity:

### 11.6.1 - Assessment of reproduction toxicity:

There is no available data on toxicity for reproduction. The chemical structure does not suggest such an effect.

## 11.7 - Developmental toxicity:

### 11.7.1 - Assessment of teratogenicity:

In animal experiments, administering high doses, effects that harm fertility were observed.

## 12.- Ecological information.

### 12.1 - Ecotoxicity:

#### 12.1.1 - Assessment of aquatic toxicity:

There is a high probability that the product is not harmful to aquatic organisms. During a spill in small concentrations in biological treatment plants are not expected variations in the function of the activated sludge.

#### 12.1.2 - fish toxicity:

LC50 (96 h) 100 mg/l, *Oncorhynchus mykiss* (OECD 203, ISO 7346, 84/449/EEC, C.1, semi static). The product has not been tested. The statement has been derived from substances or products of a similar structure or composition. Data on the toxic effects refer to the concentration determined analytically.

 <b>TM</b>	Material Safety Data Sheet <b>SBH</b>	Page 6 of 8
--	--	-------------

**12.1.3 - Aquatic invertebrates:**

EC50 (48 h) > 100 mg / l Daphnia magna (Directive 202, part 1 of the OECD, static). The data on toxic effects refer to the nominal concentration. The product has not been tested. The statement has been derived from substances or products of a similar structure or composition.

**12.1.4 - Aquatic plants:**

EC50 (72 h) > 100 mg/l, Scenedesmus subspicatus (static).

The algae growth inhibition is due to the complex properties of the substance and is not attributable to an intrinsic toxicity.

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

EC50 (3 h) > 1,000 mg/l, activated sludge (OECD Directive 209, aerobic).

The product has not been tested. The statement has been derived from substances or products of a similar structure or composition.

EC0 (30 days) 100 mg/l, activated sludge, domestic (aerobic).

The product has not been tested. The statement has been derived from substances or products of a similar structure or composition.

**12.1.6 - Chronic toxicity to fish:**

NOEC (28 d) 127 mg/l (semi-static).

The data on toxic effects refer to the nominal concentration. The product has not been tested. The statement has been derived from substances or products of a similar structure or composition.

**12.1.7 Chronic-Toxicity in aquatic invertebrates:**

NOEC (18 days), 64 mg/l, Daphnia sp. (OECD Directive 211, static)

The data on toxic effects refer to the nominal concentration. The product has not been tested. The statement has been derived from substances or products of a similar structure or composition.

**12.2 - Mobility in the soil**

**12.2.1- Assessment of transport between environmental areas:**

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):**

Hardly biodegradable (according to OECD criteria). Difficult to biological degradation. Hardly eliminated from water.

**12.3.2 - Assessment of stability in water:**

According to the chemical structure no hydrolysis is expected. Studies are not necessary for scientific reasons.

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

According to Annex XIII 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.

**12.5 - Additional Indicators:**

Theory oxygen demand (ThOD): 297 mg/g.

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: UN3267

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

UN Number: UN3267

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

UN Number: UN3267

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

UN Number: UN3267

### 15.- Regulatory information

#### 15.1 - Hazard symbols:



#### 15.2 - Risk phrases:

Harmful.

Corrosive.

Possible risk for pregnancy, adverse effects to the fetus.

Harmful by inhalation.

Irritating to eyes.

Causes severe burns.

Corrosive to metals. Substances or mixtures corrosive on metals.

Acute toxicity.

Serious injury/eye irritation.

 <b>OilFlux</b> TM	Material Safety Data Sheet <b>SBH</b>	Page 8 of 8
--	--	-------------

Toxic for reproduction.  
Corrosion / irritation of the skin.

**15.3 - Safety phrases:**

(H332). Causes serious eye irritation.  
(H332). Harmful if inhaled.  
(H361d). It is suspected that it harm the fetus.  
(H314). Causes severe burns to the skin and eye injury.

**15.4 - Additional Information:**

Conforms to Regulation (EC) 1272/2008.

<b>16.- Other Information</b>
-------------------------------

**16.1 - Additional Recommendations:**

Observe the legal ordinances on chemicals products.

**16.2 - Technical point of contact:**

In regards to the product: Technical Department. Phone

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

**16.2 - Review of the Material Safety Data Sheet:**

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

**16.4 - Further information.**