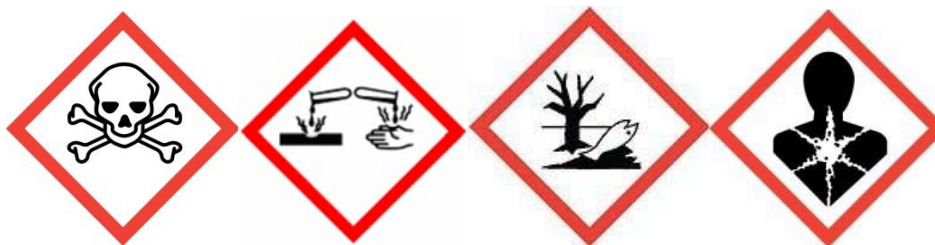


### 1.- Identification of the preparation and of the company

- 1.1 - **Name:** **SCA**
- 1.2 - **Product Applications:** (Corrosion Inhibitor) specially designed to eliminate corrosion in the pipes caused by the water.
- 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:**
- |                                  |             |
|----------------------------------|-------------|
| Class: skin corrosion/irritation | Category: 2 |
| Class: injury/eye irritation     | Category: 1 |
| Class: acute aquatic toxicity    | Category: 1 |
| Class: chronic aquatic toxicity  | Category: 2 |
- 2.2 - **Symbols and Risk Phrases:**  
Warning word: Attention.



- 2.3 -. **Hazards to health:**
- 2.3.1 – **Skin Contact:**  
Causes skin irritation. (H315)
- 2.3.2 - **Eye Contact:**  
Causes serious eye irritation. (H319)
- 2.3.3 - **Others:**  
Toxic to aquatic organisms, with long-lasting harmful effects. (H411)  
Very toxic to aquatic organisms. (H400)

### 3.- Composition / Information on components

- 3.1 - **Chemical Description:**  
Aqueous solution with amines.
- 3.2 - **Hazards Components:**  
Amines

**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. Seek medical assistance. If possible immediately inhaled a dose of corticosteroid aerosol.

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

Foam, water spray, powder fire extinguishers and carbon dioxide.

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

In case of fire, oxides of nitrogen and carbon may be released.

**5.3 - Personal Protective Equipment:**

Use a self-contained breathing apparatus (SCBA) and protective clothing.

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

Avoid contact with skin, eyes and clothing.

**6.2 - Environmental precautions:**

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: high density polyethylene (HDPE).

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 50°C

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

	Material Safety Data Sheet <b>SCA</b>	Page 3 of 8
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### 7.3 - Specific Uses:

For known uses of the product.

(Corrosion Inhibitor) specially designed to eliminate corrosion in the pipes caused by the water.

## 8.- Exposure controls / personal protection.

### 8.1 - Exposure Limit Values:

There are no known professional exposure limits.

#### 8.1.1.- PNEC

Fresh Water: 0.0335 mg/l, Sea water: 0.00335 mg/l

Sporadic release: 0.0335 mg/l, Wastewater Treatment: 24 mg/l

Sediment (freshwater): 5.24 mg/kg, (seawater): 0.524 mg/kg, (soil): 1.02 mg/kg

Oral Ingestion (secondary poisoning): 11.1 mg/kg

#### 8.1.2.- DNEL

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

Consumers: Long term exposure. Local and systemic effects, dermal: 5.5 mg/m<sup>3</sup>

Consumers: Long term exposure. Local or systemic effects, inhalation: 3.825 mg/m<sup>3</sup>

Consumer: Long term exposure. Local and systemic effects, ingestion: 0.44 mg/m<sup>3</sup>

Worker: Long term exposure. Systemic effects, dermal: 1.2 mg/kg

### 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) and face mask.

#### 8.2.4 - Skin protection:

Select the body protection depending on the activity and possible exposure, e.g. apron, boots protection, protective clothing resistant to chemical products (as in 14605 in case of splashes or in ISO 13982 in case of dust formation).

### 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.  
Colorless Liquid.

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

pH	Approx. 7 (Isopropanol/water, 23°C)
Melting Point	Approx. 0°C
Boiling Point	100°C (1013 hPa)
Flammable Point	Not determined
Flammability	No inflammable
Auto-Ignition temperature	Not determined
Vapor pressure	23.4 hPa (20°C)
Relative density (water = 1) at 20° C	0.977 g/cm <sup>3</sup>
Solubility in water	soluble
Log Kow	< 2,7
Viscosity, dynamic	40 mPa.s (50°C)

**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.

**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:****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:**

TIE (by ingestion) rat: > 2,000 - < 5,000 mg/kg (the OECD Directive 401)

LC50 rat (inhalation): not determined

LD50 rat (dermal): > 5,000 mg/kg (OECD Directive 402)

 <b>TM</b>	Material Safety Data Sheet <b>SCA</b>	Page 5 of 8
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## 11.2 - Irritation:

### 11.2.1 - Assessment of irritating effects:

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

### 11.2.2.- Experimental and calculated data:

Skin Corrosion/Irritation: irritating. (The OECD Directive 404)

Severe injury in eye irritation: irreversible damage (the OECD Directive 405).

## 11.3 - Respiratory sensitization of the skin:

### 11.3.1 - Assessment of the sensitization:

No sensitization on the skin according to experiments with animals.

## 11.4 - Mutagenicity in germ cell:

### 11.4.1 - Assessment of mutagenicity:

The substance presented mutagenic effects in various test systems with bacteria and cell cultures; however, these have not been confirmed in tests with mammals. The substance did not show mutagenic effects in bacteria. The substance has not presented signs of mutagenicity in mammalian cell culture. The substance did not show mutagenic effects in studies with mammals. The product has not been fully tested. The statements are derived from products of a similar structure composition.

## 11.5 - Carcinogenicity:

### 11.5.1 - Assessment of carcinogenicity:

Based on the available data classification criteria are not met.

## 11.6 - Reproductive toxicity:

### 11.6.1 - Assessment of reproduction toxicity:

Based on the available data classification criteria are not met. In tests carried out with a non-toxic dose in adult animals, they showed no adverse effects on fertility. The results were determined in a Screeningtest (OECD 421/422).

## 11.7 - Developmental toxicity:

### 11.7.1 - Assessment of teratogenicity:

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

## 11.8.- Specific toxicity in organs diana (single exposure):

### 11.8.1 - Simple evaluation of the STOT (specific target organ toxicity):

No data available.

## 11.9.- Toxicity on repeated doses and organ specific toxicity (repeated exposure)

### 11.9.1 Toxicity in the case of frequent application:

No adverse effects in animal tests have been observed after repeated oral exposure. After repeated contact with skin exposure no adverse effects in animal tests were observed. After repeated ingestion, the main effect is local irritation.

## 11.10.- Aspiration hazard:

Not applicable.

<b>12.- Ecological information.</b>
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## 12.1 - Ecotoxicity:

### 12.1.1 - Assessment of aquatic toxicity:

Very toxic (acute toxicity) in aquatic organisms. Toxic to aquatic organisms based on data from long-term (chronic) toxicity studies.

### 12.1.2 - fish toxicity:

LC50 > 1 - < 10 mg/l

 <b>TM</b>	Material Safety Data Sheet <b>SCA</b>	Page 6 of 8
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**12.1.3 - Aquatic invertebrates:**

EC50 > 1 - < 10 mg/l

**12.1.4 - Aquatic plants:**

EC50 > 0.1 - < 1 mg/l, algae; NOEC > 0.01 - < 0,1 mg/l, algae long-term effect.

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

EC0 > 100 mg/l.

**12.1.6 - Chronic toxicity to fish:**

NOEC > 0.1 - < 1 mg/l, Pimephales promelas.

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

NOEC (21 days) > 0.1 - < 1 mg/l Daphnia magna (chronic test on Daphnia).

**12.1.8 - Toxicity in land plants:**

There are no available data on land toxicity.

**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):**

Easily biodegradable (according to OECD criteria).

**12.3.2 – Bioaccumulation potential:**

an accumulation in organisms is not expected.

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

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 - Other adverse effects:**

The product does not contain substances listed on Regulation (EC) 1005/2009 on substances that remove the ozone layer.

<b>13.- Terms of elimination</b>
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**13.1 - Waste Disposal:**

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

The code of residue, according to the European list of waste (CER), cannot be determined, since it depends on the use of the product.

The code of waste in accordance with the European waste catalogue (EWC) must be specified in cooperation with the manufacturer and the authorities.

**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: UN3082

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

UN Number: UN3082

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

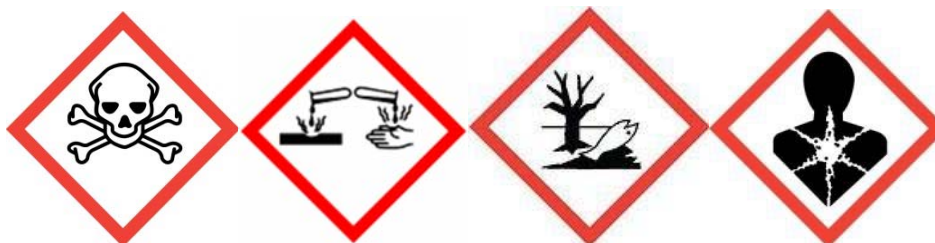
UN Number: UN3082

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

UN Number: UN3082

#### 15.- Regulatory information

##### 15.1 - Hazard symbols:



##### 15.2 - Risk phrases:

Dangerous for the environment.

Harmful.

Very toxic to aquatic organisms.

Harmful if swallowed.

Irritating to the skin.

Risk of serious eye injury.

Skin corrosion/irritation.

Injury/eye irritation.

Aquatic environment acute toxicity.

Hazardous to the aquatic environment-acute. Chronic Toxicity to aquatic environment.

Hazardous to the aquatic environment-chronic. Acute Toxicity.

##### 15.3 - Safety phrases:

H318 causes serious damage to eyes.

H315 causes skin irritation.


H302 harmful if swallowed.

H411 toxic to aquatic organisms, with long-lasting harmful effects.

H400 very toxic to aquatic organisms

##### 15.4 - Additional Information:

Conforms to Regulation (EC) 1272/2008.

 <b>OilFlux</b> TM	Material Safety Data Sheet <b>SCA</b>	Page 8 of 8
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#### **16.- Other Information**

**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.**