

# **KAPACHIM S.A.**

## **CHEMICAL PRODUCTS**

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**REVISED DATE: 16/02/09**

### **SAFETY DATA**

## **LABSA 240/D**

#### **1.PRODUCT AND COMPANY IDENTIFICATION**

COMPANY : KAPACHIM S.A.

SUBSTANCE  
TRADE NAME : LABSA 240/D

INCI NAME : C10-13-ALKYL BENZENE SULFONIC ACID

APPLICATION : Intermediary for the production of the anionic  
surfactant, linear alkyl benzene sulfonate, sodium salt.

#### **2. HAZARDS IDENTIFICATION:**

##### **ADVERSE HUMAN HEALTH EFFECTS:**

The product is a corrosive substance. Contact with the eyes may cause ocular lesions. Contact with the skin may cause burns, it is seriously irritating to the mucouses if swallowed.  
The product is harmful if ingested.

##### **ENVIRONMENTAL EFFECTS:**

The product is not classified dangerous to the environment according to the Directives 67/548//EC and to its following amendments.  
The user is advised to use anyway good work practice and to avoid contamination of the environment.

##### **OTHER EFFECTS:**

The product is a strong acid which reacts exothermally with bases. Dilution with water produces heat.

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### 3. COMPOSITION/ INFORMATION ON INGREDIENTS:

CHEMICAL NATURE : Substance

CHEMICAL NAME : Aryl sulfonic acid, liquid, with not more than 5% free sulfuric acid

SYNONYMS : Linear alkyl benzene sulfonic acid.  
Alkyl aryl sulfonic acid.

CHEMICAL FORMULA : R- C<sub>6</sub>H<sub>4</sub>- SO<sub>3</sub>H R= C<sub>10-13</sub>

CAS REGISTRY NYMBER : 85536-14-7

EC NUMBER : 287-494-3

#### HAZARDOUS IMPURITIES

Name	Concentr. % m/m	CAS REGISTRY NUMBER	EC NUMBER	Symbol	R Phrases
1.Sulfuric acid	< 2	7664-93-9	016-020-00-8	C-Corrosive	R35

R35: Causes severe burns.

### 4. FIRST AID MEASURES

INGESTION: The product may cause severe irritation of the mouth and esophagus. If accidentally ingested, administer water. Do not induce vomiting.. Gall a physician immediately.

INHALATION: The product is not volatile.. If under particular conditions, such as in the case of fire, fumes or aerosols are inhaled, remove the patient to a well ventilated location and call a physician.

EYE CONTACT: Flush eyes immediately with running water for a long time. Seek medical assistance immediately.

SKIN CONTACT: The product may cause burns. Remove the contaminated clothing and wash with plenty of water and call a physician immediately.

#### ANNOTATIONS TO A PHYSICIAN:

The product is a high foaming anionic surfactant. If gastric ravage is necessary, them use a silicone antifoam (dimethicone)

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### **5. FIRE - FIGHTING MEASURES:**

#### GENERAL INFORMATION:

The product poses little risk of ignition.  
If it happens to be involved in a fire,, keep the tank cooled by means of water spray in order to avoid the decomposition of the product.

#### SUITABLE EXTINGUISHING MEDIA:

Water spray , foam, carbon dioxide.

#### NOT SUITABLE EXTINGUISHING MEDIA:

None in particular.

**SPECIFIC HAZARDS:** Combustion produces carbon dioxide, carbon monoxide and oxide of sulfur.  
When heated to decomposition, toxic fumes of SO<sub>2</sub> and SO<sub>3</sub> are emitted.

**SPECIAL EQUIPMENT:** For large fires,, wear self contained breathing apparatus.

### **6. ACCIDENTAL SPILL MEASURES:**

#### PERSONAL PRECAUTIONS:

Avoid direct contact with the product.  
Wear rubber gloves and rubber boots, face shield and keep close by a gas mask provided with filter for acid vapors.

#### ENVIRONMENTAL PRECAUTIONS:

Surround the spilt with earth or sand. Collect the spilled materials in suitable containers. If necessary absorb the spilt onto inert materials.  
Dispose of material according to the requirements of local laws. In case of leaking into sewer inform the local officials.  
Inform the local officials.

#### METHODS FOR CLEANING UP:

Neutralize the residue of product with NaOH or with caustic lime.  
Wash the contaminated area with plenty of water.  
If excessive foam is produced, use a silicone based antifoam to bring it down.

### **7. HANLING AND STORAGE:**

#### HANDLING:

Avoid contact with the product. While handling the product, wear a protective apron, rubber or PVC gloves and a face shield.  
Handle the product in well ventilated areas.  
Neutralize with base under controlled conditions.

#### STORAGE:

Do not heat above 50°C.  
Compatible materials: stainless steel , mild steel, plastic materials.  
Incompatible with galvanized steel, aluminum, cooper alloys.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

### PRECAUTIONARY MEASURES:

Installation of an eyewash fountain is recommended.  
Do not eat or drink onto the work place.  
When handling the product use approved protective clothing, rubber or PVC gloves, and a face shield.

### PERSONAL PROTECTIVE EQUIPMENT:

Wear safety goggles or a face shield and approved protective clothing.

### THRESHOLD LIMIT VALUE:

Not established.

### REQUIREMENTS FOR PERIODIC HEALTH CHECK-UP:

Specific measures are not foreseen.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE AT 20°C: Brown viscous liquid

ODOR: :Of sulfur

NOMINAL ACTIVE MATTER CONCENTR:~100% m/m

AVERAGE MOLECULAR MASS: ~ 325

### SOLUBILITY at 20°C:

- water:	Soluble
- ethanol:	Soluble
- acetone:	Not compatible
- aliphatic hydrocarbons:	Insoluble

MASS DENSITY at 20°C: ~ 1.060 g/cm<sup>3</sup>

VISCOSITY at 20°C : ~ 1900 cs

MELTING RANGE: ~ - 10c

BOILING TEMPERATURE AT 100 kPa: Not applicable to this product

VAPOR PRESSURE a 20°C: Below 0.15 Pa (0.001 mm Hg)

VAPOR DENSITY(air =1): Not applicable to this product

FLASH POINT (PMcc): Not applicable to this product

AUTOIGNITION TEMPERATURE: Not applicable to this product

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DECOMPOSITION TEMPERATURE:~ 100°C

pH 1% water: ~ 1

EXPLOSION PROPERTIES:Not pertinent to this product

OXIDIZING PROPERTIES: Not pertinent to this product.

### **10. STABILITY AND REACTIVITY:**

HAZARDOUS DECOMPOSITION PRODUCTS:

In case of overheating , sulfur oxides can be emitted

CONDITIONS TO AVOID: Do not heat above 80 - 90°C

MATERIALS TO AVOID: Neutralization with bases under uncontrolled conditions.

INTENDED USE AND TRANSFORMATION:

The product may be neutralized under controlled conditions with the appropriate base to produce the corresponding salt.

### **11. TOXICOLOGICAL INFORMATION:**

POSSIBLE ROUTES OF PENETRATION:

Ingestion and contact.

INGESTION: Corrosive substance, harmful for ingestion.  
Oral acute LD50 : > 500 - 2000 mg/kg

EYE CONTACT: Severe eye irritant (rabbit)  
It may cause irreversible damage to the eyes

SKIN CONTACT: Contact may cause ulceration.

SENSITIZATION: Not sensitizing

INHALATION: Inhalation is possible only as an aerosol, Strong Irritant to respiratory passages.

### **12. ECOLOGICAL INFORMATION:**

ENVIRONMENTAL DISTRIBUTION:

Water is likely to be the main transport medium for the chemical, to estimate its possible environmental distribution.

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### PRIMARY BIODEGRADABILITY:

- > 90% OECD screening test (sodium salt)  
The surfactant fulfils the requisite minimum requirements of primary biodegradability as per Directive 82/243/EC

### READY BIODEGRADABILITY: > 60% OECD 301 F test.

The surfactant can be classified ``ready biodegradable`` according to the criteria of Directive 91/325/EC

### ABIOTIC DEGRADABILITY: Not available

### THEORETICAL OXYGEN DEMAND (ThOD):

2.49 mg//O<sub>2</sub>/mg

### CHEMICAL OXYGEN DEMAND (COD):

Not available

### ECOTOXICITY:

EC50 > 1 - 10 MG/l

### Log P o/w:

Not applicable, surface active substance.

### BCF:

Insufficient available information

## **13. DISPOSAL CONSIDERATIONS:**

Dispose of product in authorized places/methods in observance with current laws, it may be treated in a biological waste water treatment plant.

## **14. TRANSPORT INFORMATION:**

UN Classification Number: 2586

Name of the delivering product: Aryl sulfonic acid,, liquid with not more than 5% free sulfuric acid.

### BY SEA (IMO/IMDG):

Class: 8 Page: 8105 Packing group: III Label: 8  
MARPOL Annex II : Cat C—Alkylbenzenesulponic acid MARPOL Annex III .....  
EmS: 8-06 MFAG: table no 700

### BY ROAD (ADR):

Class: 8 : 34°C Identification numbers on the plate: 80/2586 Packing group: III Label: 8

### BY RAIL (RID):

Class: 8: 34°C Identification numbers on the plate: 80/2586 Packing group: III Label: 8

### BY AIR (ICAO / IATA):

Class: 8 Label: 8

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## 15. REGULATORY INFORMATION (Directive 67/548/EC and following amendments)

STATORY

PROVISIONAL

NOT NECESSARY



SYMBOLS OF HAZARD:  
RISK PHRASES:

**Corrosive**

R 22- Harmful if swallowed

R 34- Causes burns

SAFETY ADVICES:

S 26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28- After contact with skin, wash immediately with plenty of water.

S 36/37/39-Wear suitable protective clothing. Gloves and eye/face protection.

## 16 OTHER INFORMATION:

- (1) CESIO - Classification and Labeling of Anionic, Nonionic Surfactant (1990)
- (2) NIOSH - Registry of Toxic Effects of Chemical Substances (1983)
- (3) R.D. Swisher - Surfactant Biodegradation. Second Ed. Marcel Dekker 1987
- (4) Handbook of Chemistry and Physics - Ed. ``The Chemical Rubber Co`` Cleveland , Ohio- 1988, 69<sup>th</sup> Edition
- (5) Giornale del Chimici Iginenisti Italiani , n 1/92 - Vol 17. Valon Limite di Soglia ACGIH 1991/92
- (6) EINECS - European Inventory of Existing Commercial Chemical Substances.
- (7) Indices to the TSCA Inventory : 1985 Edition
- (8) PITIO (Federchimica) - Bollettino N.2 - October 1994
- (9) R.D. Swisher - Surfactant Biodegradation. Second Ed. Marcel Dekker 1987
- (10) A.D. Little- Environ and Human Safety of Major Surf-Vol.1, Anionic Surfactants. Part 1: Linear Alkyl benzene NTIS. Feb. 199