

和益化學工業股份有限公司

FORMOSAN UNION CHEMICAL CORP.

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SAFETY DATA SHEET FOR

Linear alkyl benzene sulfonic acid

SECTION 1 : CHEMICAL PRODUCT & COMPANY IDENTIFICATION

- CHEMICAL PRODUCT NAME : **Linear alkyl benzene sulfonic acid**
- CAS REGISTRY NUMBER : **68584-22-5**
- NAME OF MANUFACTURER/SUPPLIER : FUCC
- ADDRESS : 14F,NO.206,SEC.2,NANKING E.R.D.,TAIPEI,TAIWAN
- E-MAIL : **fucc@fucc.com.tw**
- EMERGENCY PHONE NUMBER : TAIPEI : **886-2-25071234**
- FAX NUMBER : TAIPEI : **886-2-25071664**

SECTION 2 : HAZARDS IDENTIFICATION

- PRODUCT HAZARD CLASS : Acute toxicity (oral) : Category 4
Skin Corrosion/Irritation Hazard : Category 1
Eye damage/Irritation Hazard : Category 1



- SYMBOL :
- SIGNAL WORD : **DANGER**
- HAZARD STATEMENT : H302 : Harmful if swallowed.
H314 : Causes severe skin burns and eye damage.
H318 : Causes serious eye damage.
- PRECAUTIONARY STATEMENT :
 - PREVENTION :
P264 : Wash thoroughly after handling.
P270 : Do not eat, drink, or smoke when using this product.
P280 : Wear protective gloves/protective clothing/eye protection/face protection.
 - RESPONSE :
P301+312 : If swallowed : Immediately call a poison center or doctor/physician.
P301+ P330 + P331 : If swallowed : Rinse mouth. Do not induce vomiting.

P303+ P361 + P353 : If on skin (or hair) : Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+ P340 : If inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 : Immediately call a poison center or doctor/physician.

P305+ P351 + P338 : If in eye : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- **DISPOSAL** : P501 : Dispose of contents/ container to an approved waste disposal plant.
- **PHYSICAL AND CHEMICAL HAZARDS** : brown, viscous liquid. the liquid is non-combustible.
- **ADVERSE HUMAN HEALTH EFFECTS** : the anionic surfactant will cause slightly irritant to eyes or skin.
- **ENVIRONMENTAL EFFECTS** : This substance is biodegradable

SECTION 3 : COMPOSITION /INFORMATION ON INGREDIENTS

- **SUBSTANCE /MIXTURE** : **Mixture**
- **Description** : Mixture of the following components :

Chemical Name	Cas No	Concentration %
Linear alkyl benzene sulfonic acid	68584-22-5	≥ 96.0
Linear Alkyl Benzene	67774-74-7	≤ 1.5
Sulfuric acid	7664-93-9	≤ 1.5
Water	7732-18-5	≤ 1.0

SECTION 4 : FIRST-AID MEASURES

- **IF SWALLOWED** : Keep respiratory tract clear.
Do not induce vomiting.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.
If symptoms persist, call a medical doctor.
- **EYE CONTACT** : Immediately flush with clean water for at least 10 minutes, to lift and clean the upper and lower eyelids. Arrange to see a medical doctor immediately
- **SKIN CONTACT** : Wash the contact part of the skin with plenty of clean water. get medical attention if irritation occurs.
- **INHALATION** : Remove the affected person from the contamination to fresh air. Get medical attention immediately.
- **INGESTION** : Do not induce vomiting. Seek medical attention immediately.

SECTION 5 : FIRE-FIGHTING MEASURES

- **FLAMMABLE LIMITS** : *Not applicable.*
- **EXTINGUISHING MEDIA** : *Water, water fog, carbon dioxide, dry chemical.*
- **HAZARDOUS COMBUSTION PRODUCTS** : *Not applicable.*
- **AUTOIGNITION TEMPERATURE** : *Not applicable.*
- **PROPERTIES CONTRIBUTION TO FLAMMABILITY** : *Not applicable.*
- **SENSITIVITY TO** : *STATIC DISCHARGE None.*
- **SENSITIVITY TO** : *IMPACT None.*
- **HAZARDOUS DECOMPOSITION PRODUCTS** : *None.*

SECTION 6 : ACCIDENTAL RELEASE MEASURES

- **GENERAL PROCEDURES** :

*If the liquid contact does not present any problems, wash the contact parts with plenty of water.
Use appropriate protective equipment if liquid is generated or contact with eyes or skin is expected.*

SECTION 7 : HANDLING & STORAGE

- **HANDLELINE** : *Use appropriate tool to take the liquid.*
- **STORAGE** : *Store in a cool(40 °C↓) , dry area, avoid to contact with water directly.*

SECTION 8 : EXPOSURE CONTROL/PERSONAL PROTECTION

- **CONTROL PARAMETERS** : *None*
- **ENGINEERING MEASURES** : *Minimize eyes and skin contact by using appropriate protective equipment.*
- **PERSONAL PROTECTIVE EQUIPMENT** :
 - **EYES AND FACE** : *None (if contact with the liquid, wash with plenty water immediately)*
 - **PROTECTIVE CLOTHING** : *Use rubber gloves to prevent skin contact, arm protectors and aprons.*

SECTION 9 : PHYSICAL & CHEMICAL PROPERTIES

<i>PHYSICAL STAGE,FORM</i>	<i>:</i>	<i>Liquid</i>
<i>APPEARANCE</i>	<i>:</i>	<i>Brown viscous liquid</i>
<i>COLOUR</i>	<i>:</i>	<i>Brown</i>
<i>ODOR</i>	<i>:</i>	<i>Slightly characteristic odor</i>
<i>DENSITY</i>	<i>:</i>	<i>1.04± 0.05 g/cm³ (25 °C)</i>
<i>BOILING POINT</i>	<i>:</i>	<i>129 °C (ASTM D1078)</i>

MELTING POINT	:	None
FLASH POINT	:	208.0 °C (ASTM D93)
SOLUBILITY IN WATER	:	Miscible with water
VAPOUR PRESSURE	:	Not determined
SOLUBILITY IN	:	None

SECTION 10 : PHYSICAL HAZARD (STABILITY & REACTIVITY)

- **STABILITY :** *Stable*
- *Possible hazardous reactions under specific conditions: —*
- *Conditions to avoid: —*
- *Materials to avoid: —*
- *Hazardous decomposition products: —*

SECTION 11 : TOXICOLOGICAL INFORMATION

- **EYE EFFECTS :** —
- **SKIN EFFECTS :** —
- **DERMAL LD₅₀ :** —
- **CARCINOGEN :** —

SECTION 12 : ECOLOGICAL INFORMATION

- **Ecotoxicity:** —
- **Persistence and degradability:** *The product is easily biodegradable.*
- **Bioaccumulative potential:** —
- **Mobility in soil:** —
- **Other adverse effects:** —

SECTION 13 : DISPOSAL CONSIDERATION

- *1. Disposal is to be performed in compliance with related laws and regulations.*
- *2. Dispose of waste liquid in accordance with hygiene burying method. Washing them with plenty of water.*

SECTION 14 : TRANSPORT INFORMATION

- *Keep away from oxidizing materials and source of ignition.*
- **United Nations number(UN No) :** **2586**
- **UN Proper shipping name :** *Alkyl sulfonic acids, Liquid, with not more than 5% free Sulfonic Acids*
- **Transport hazard class(es) :** **8**
- **Packing group :** **III**
- **Marine pollutant(Yes/No) :** **No**
- **Air transport ICAO/IATA Shipping Description :** *UN2586, Alkyl Sulfonic Acids, Liquid , 8 , PG III*

• Highway/ Rail (DOT/ TDG) 、 Bulk-Tank Truck/ Tank Car 、 Drum/ Bag 、 Pail/ Can

Shipping Name : Alkyl Sulfonic Acids, Liquid Hazard Class : 8

Identification Number : UN2586 Packing Group : PG III

Marine pollutant(Yes/No) : No

• Specific transport measures and precautionary conditions : Read safety instructions, SDS and emergency procedures before handling.

SECTION 15 : REGULATORY INFORMATION

• Follow all regulations in your country.

SECTION 16 : OTHER INFORMATION

• REFERENCES

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