

C10-13 ALKYL BENZENESULFONIC ACID, SODIUM SALT

1602

October 2005

CAS No: 68411-30-3

Sodium alkylbenzene sulfonate
 Linear alkylbenzene sulfonic acid sodium salt
 Linear alkylbenzene sodium sulfonate
 LAS
 $C_{11.6}H_{24.2}C_6H_4SO_3Na$
 Molecular mass: 342.4

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			
EXPOSURE			
Inhalation	Cough. Sore throat.	Local exhaust or breathing protection.	Fresh air, rest.
Skin	Redness. Pain.	Protective gloves.	Rinse skin with plenty of water or shower.
Eyes	Redness. Pain. Burns.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Diarrhoea. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting.

SPILLAGE DISPOSAL

Personal protection: P2 filter respirator for harmful particles. Do NOT let this chemical enter the environment. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting.

PACKAGING & LABELLING

EMERGENCY RESPONSE

SAFE STORAGE

Store in an area without drain or sewer access. Separated from acids.

IPCS

International Programme on Chemical Safety



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SEE IMPORTANT INFORMATION ON THE BACK.

IMPORTANT DATA

Physical State; Appearance

SOLID IN VARIOUS FORMS

Chemical dangers

The substance decomposes on heating producing toxic and corrosive fumes including sulfur oxides. Reacts with acids producing toxic and corrosive fumes including sulfur oxides.

Occupational exposure limits

TLV not established.
MAK not established.

Routes of exposure

The substance can be absorbed into the body by ingestion.

Inhalation risk

A harmful concentration of airborne particles can be reached quickly when dispersed.

Effects of short-term exposure

The substance is irritating to the skin and the respiratory tract and is corrosive to the eyes.

PHYSICAL PROPERTIES

Boiling point: 637/C
Melting point: 277/C
Relative density (water = 1): 1.06

Solubility in water, g/100 ml at 20/C: 25
Vapour pressure, Pa at /C: negligible
Octanol/water partition coefficient as log Pow: 3.32

ENVIRONMENTAL DATA

The substance is toxic to aquatic organisms.

NOTES

The substance is usually sold as a 50% concentrate. The linear alkyl chain has typically 10 to 13 carbon atoms, approximately in the following mole ratio (percentage of alkyl chain length relative to the total component) C10:C11:C12:C13=13:30:33:24. The formulations of linear alkylbenzene sulfonates available in US contain also 0-5% C14 component

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information