

Alkylsulfonic acid ester of phenol

This document provides a brief description of Alkylsulfonic acid ester of phenol, its uses, and the potential hazards associated with short and long term exposure. Environmental impact information for accidental releases is included. This information is general in nature and is not intended as a replacement for the safety data sheet (SDS), product label and other safe handling literature. For additional information consult the LANXESS safety data sheet.

Identification

Product Name:	Mesamoll
Chemical Name:	Alkylsulfonic acid ester of phenol
Synonym(s):	ASE Phenyl C10-18-alkylsulfonate Sulfonic acid, C ₁₀ -C ₁₈ -alkaline, phenylester
CAS Number:	70775-94-9

Description

Overview:	Alkylsulfonic acid ester of phenol is a viscous, odorless, light yellow liquid at ambient temperatures.						
Uses:	Alkylsulfonic acid ester of phenol is primarily used as an additive in the manufacture of plastic and rubber products. The chemical is also used as an additive in adhesives, sealants, coatings and printing inks and as a rinsing or service fluid (lubricant) for polyurethane foaming machinery.						
Properties:	<table><tr><td>Boiling Point:</td><td>Approx. 392°F (200°C)</td></tr><tr><td>Flash Point:</td><td>410 - 464°F (210 - 240°C)</td></tr><tr><td>Solubility in Water:</td><td>Slight</td></tr></table>	Boiling Point:	Approx. 392°F (200°C)	Flash Point:	410 - 464°F (210 - 240°C)	Solubility in Water:	Slight
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Solubility in Water:	Slight						

Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture, at bulk loading, storage and staging areas, and in sampling, mixing, packaging and cleaning operations where the chemical is used as an additive or lubricant. A much lower potential for exposure exists in facilities using the chemical in closed manufacturing processes by trained personnel.

Employee Training

Workers handling alkylsulfonic acid ester of phenol should be trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. LANXESS recommends that safety glasses with side shields, permeation resistant clothing and foot protection be worn when handling this chemical.

Consumer Exposure

LANXESS Corporation does not sell alkylsulfonic acid ester of phenol to the general public.

Short-Term Health Effects

Exposure to alkylsulfonic acid ester of phenol is not expected to cause any adverse acute health effects.

Long-Term Health Effects

Exposure to alkylsulfonic acid ester of phenol is not expected to cause any adverse chronic health effects.

Physical Hazards

Alkylsulfonic acid ester of phenol is stable under normal conditions of use. Avoid contact with strong oxidizing agents. Heating to decomposition may produce carbon monoxide, carbon dioxide, sulfur dioxide, phenol and other undetermined compounds. Heating alkylsulfonic acid ester of phenol may cause expansion, leading to violent rupture of sealed containers. Exposure to heat, open flames and other potential sources of ignition must be avoided.

Potential Environmental Impact

Alkylsulfonic acid ester of phenol is biodegradable and is not regulated as a hazardous waste. An accidental release to water may pose a danger to fish (low toxicity), invertebrates (low toxicity) and aquatic plants (low toxicity) prior to degradation.

Conclusion

Under normal conditions of anticipated use as described in this Product Safety Assessment, and if the recommended safe use and handling procedures are followed, alkylsulfonic acid ester of phenol is not expected to pose a significant risk to human health or the environment.

References

Safety Data Sheet (SDS), MESAMOLL, LANXESS Corporation

MedlinePlus Medical Encyclopedia, U.S. National Library of Medicine and the National Institutes of Health

Review of Exposure and Toxicity Data for Phthalate Substitutes, U.S. Consumer Product Safety Commission

Contact Information

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Notices

Use and Application Information

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