

Sodium poly(naphthaleneformaldehyde) sulfonate

This document provides a brief description of sodium poly(naphthaleneformaldehyde) sulfonate, 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:	Sodium poly(naphthaleneformaldehyde) sulfonate
Chemical Name:	Sulfonated naphthalene condensate, sodium salt
Synonym(s):	Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt Sodium polynaphthalenesulfonate Sodium salt of sulfonated naphthaleneformaldehyde condensate
CAS Number:	9084-06-4

Description

Overview:	Sodium poly(naphthaleneformaldehyde) sulfonate is an off-white to light brown solid at ambient temperatures. This chemical compound has a faint odor and is sold in powder form.
Uses:	Sodium poly(naphthaleneformaldehyde) sulfonate is a component used as a surfactant, dispersant or plasticizer in primarily chloroprene rubber product manufactured by LANXESS.
Properties:	Solubility in Water: Soluble

Potential Human Health Effects

Occupational Exposure

Potential for exposure to sodium poly(naphthaleneformaldehyde) sulfonate exists during manufacture, at storage or staging areas, and during sampling and mixing operations when used in the manufacture of other products. A much lower potential for exposure exists in facilities using the chemical in closed manufacturing processes by trained personnel.

Employee Training

Workers handling sodium poly(naphthaleneformaldehyde) sulfonate should be trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. A NIOSH approved particulate respirator is recommended for operations where airborne concentrations of dust may exceed recommended exposure limits for unregulated substances. In addition, LANXESS recommends that goggles, long pants, a long-sleeved shirt and gloves be worn when handling sodium poly(naphthaleneformaldehyde) sulfonate.

Consumer Exposure

LANXESS does not sell sodium poly(naphthaleneformaldehyde) sulfonate to the general public.

Short-Term Health Effects

Short-term contact may cause mild skin or eye irritation with symptoms of redness. Inhalation or ingestion of sodium poly(naphthaleneformaldehyde) sulfonate dust may cause irritation or infection of the respiratory tract. Inhalation or ingestion in sufficient quantities may cause nervous system effects with symptoms of headache, nausea, dizziness, muscle spasms and/or irritability.

Long-Term Health Effects

Formaldehyde is known to the State of California to cause cancer.

Physical Hazards

Sodium poly(naphthaleneformaldehyde) sulfonate is stable under normal conditions of use. Large concentrations of dust may form explosive mixtures in air. Avoid contact with strong oxidizers, strong reducing agents, combustibles and organic materials. Heating to decomposition may release carbon monoxide, carbon dioxide, sulfur oxides or other potentially toxic gases. Avoid heat, open flames and other potential sources of ignition.

Potential Environmental Impact

An accidental release of sodium poly(naphthaleneformaldehyde) sulfonate to water may pose a danger to fish (low toxicity), invertebrates (low toxicity) and other aquatic organisms (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, sodium poly(naphthaleneformaldehyde) sulfonate is not expected to pose a significant risk to human health or the environment.

References

Safety Data Sheet (SDS), NAPHTHALENESULFONIC ACID, POLYMER WITH FORMALDEHYDE, SODIUM SALT, ChemAdvisor, Inc.

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

Contact Information

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Notices

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