2,2',6,6'-Tetraisopropyldiphenyl Carbodiimide

This document provides a brief description of 1-Naphthalenamine, N-phenyl-, 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 Corporation safety data sheet.

Identification

Chemical Name: Benzenamine, N,N′-methanetetraylbis[2,6-bis(1-methylethyl)-

Synonym(s): Bis(2,6-diisopropylphenyl)carbodiimide
N,N′-Bis(2,6-diisopropylphenyl)carbodiimide

CAS Number: 2162-74-5

Applicable LANXESS Materials: Stabaxol I LF Stabaxol I

Additin RC 8500

Description

Overview: Bis(2,6-diisopropylphenyl)carbodiimide is a white to yellowish powder at room temperature. This material is characterized by a slight odor

Uses: This material, as sold by LANXESS, may be used as an anti-hydrolysis agent for lubricant additives or polyester polyurethanes.

Properties:

Solubility in Water:	0.05 mg/L (20˚C)**;** insoluble
Density:	0.97 g/cm^3(20˚C)
Decomposition:	>294C (561˚F)
Melting Range:	45 - 52°C (113 - 126 ˚F)

Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture, and in unloading, storage, staging and transfer operations at facilities using the LANXESS material in the production of other products. A much lower potential for exposure exists in facilities using this substance in closed manufacturing processes by trained personnel.

Employee Training

Workers handling the LANXESS manufactured material should be trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. Process enclosures, local exhaust ventilation, or other engineering controls should be used to protect workers from potential airborne concentrations. Isocyanate vapors may be released at high processing temperatures. Where ventilation is insufficient or airborne concentrations are unknown, respiratory protection should comply with 29 CFR 1910.134. Workers must wear a full-face positive pressure, supplied-air respirator or self-contained breathing apparatus (SCBA). In addition, it is recommended to use permeation resistant gloves, and work clothing and foot protection when handling the solid.

Consumer Exposure

LANXESS Corporation does not sell bis(2,6-diisopropylphenyl)carbodiimide, nor materials containing the substance, to the general public.

Short-Term Health Effects

Bis(2,6-diisopropylphenyl)carbodiimide is harmful if ingested. Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea.

Long-Term Health Effects

Repeated and prolonged contact may cause damage to fertility and target organs.

Physical Hazards

This material is stable under normal conditions of use. Prevent contact with amines, alkalis, alcohols, and water. Heating to decomposition may release carbon monoxide, carbon dioxide, nitrogen oxides, isocyanates, and traces hydrogen cyanide.

Potential Environmental Impact

This substance is not readily biodegradable. An accidental release to the environment 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, this material is not expected to pose a significant risk to human health or the environment.

References

ToxPlanet, Bis(2,6-diisopropylphenyl)carbodiimide, 2018

European Chemicals Agency, Bis(2,6-diisopropylphenyl)carbodiimide, January 2019

Safety Data Sheet (SDS), Stabaxol I, LANXESS Corporation, January 2019

Contact Information

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Notices

Use and Application Information

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.