1H-Pyrrole-2,5-dione, 1,1′-[1,3-phenylenebis(methylene)]bis[3-methyl-

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:	1H-Pyrrole-2,5-dione, 1,1′-[1,3-phenylenebis(methylene)]bis[3-methyl-
Synonym(s):	1,3-bis(3-methyl-2,5-dioxo-1H-pyrrolinylmethyl)benzene 1,3-Bis(citraconimidomethyl)benzene 1,3-Bis(citraconimidomethylene)benzene
CAS Number:	119462-56-5
Applicable LANXESS Materials:	Perkalink 900

Description

Overview: 1H-Pyrrole-2,5-dione, 1,1′-[1,3-phenylenebis(methylene)]bis[3-methyl- is a white, lump pastille in ambient conditions.

Uses: This material, as sold by LANXESS, may be used as an anti-reversion agent in the production of rubber chemicals.

Properties:

Solubility in Water:	40.8 mg (20˚C)
Relative density:	1.269 g/cm³(20˚C)
Flash Point:	257°C (494.6˚F) open cup
Boiling Point:	>280°C (536˚F) 1013 hPa
Melting Range:	83 - 87°C (181 - 188.6 ˚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. Although no occupation exposure limits are currently established for the substance, it is recommended that workers reference OSHA and ACGIH guidelines. In cases where ventilation is insufficient or airborne concentrations are unknown, a NIOSH approved, air-purifying particulate respirator should be used. In addition, it is recommended to use tightly fitting goggles, permeation resistant gloves, and work clothing and foot protection when handling the solid.

Consumer Exposure

LANXESS Corporation does not sell 1H-Pyrrole-2,5-dione, 1,1′-[1,3-phenylenebis(methylene)]bis[3-methyl-, nor materials containing the substance, to the general public.

Short-Term Health Effects

The substance is corrosive to the eye. Symptoms of eye contact may include reddening, tearing, swelling, and possible permanent damage. In addition, the substance may cause sensitization by skin contact. Once sensitized, an allergic skin reaction may occur with symptoms including redness, swelling, and rash at low concentrations.

Long-Term Health Effects

Based on animal studies, prolonged or repeated exposure via ingestion may cause damage to the stomach.

Physical Hazards

This material is stable under normal conditions of use. Prevent contact with oxidizing agents. Heating to decomposition may release carbon monoxide, carbon dioxide, and nitrogen oxides.

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, 1H-Pyrrole-2,5-dione, 1,1'-(1,3-phenylenebis(methylene))bis(3-methyl-, 2018

European Chemicals Agency, 1H-Pyrrole-2,5-dione, 1,1'-(1,3-phenylenebis(methylene))bis(3-methyl-, December 2018

Safety Data Sheet (SDS), Perkalink 900 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.