



**HPL Additives Limited**

## MATERIAL SAFETY DATA SHEET

### KINOX<sup>®</sup>-98

#### 1 IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

<b>Product name</b>	:	N,N'-Hexane-1,6-diylbis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionamide] Or N,N'-hexamethylene-bis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionamide)
<b>Product code</b>	:	KINOX <sup>®</sup> -98
<b>Product type</b>	:	Antioxidant
<b>Supplier's name and address</b>	:	HPL Additives Limited 803, Vishal Bhawan 95, Nehru Place New Delhi - 110019 (INDIA)
<b>Contact Numbers</b>	:	Telephone +91- 11- 2643 1522 +91- 11- 2642 1570 Fax +91- 11- 2647 4350 +91- 11- 2646 0981 e-mail hpl@hpl-group.com
<b>Information</b>	:	Product Compliance and Regulatory Affairs
<b>Emergency Phone Number (24h)</b>	:	+91-9910486231

#### 2 HAZARDS IDENTIFICATION

: Harmful to aquatic organism may cause long term adverse effects on aquatic life.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical name</b>	: N,N'-hexane-1,6-diylbis[3-(3,5-di-tert.butyl-4-hydroxyphenyl)propionamide]
<b>CAS Registry number</b>	: 23128-74-7
<b>EINECS number</b>	: 245-442-7
<b>R-Phrases(s)</b>	: R52/53

### 4 FIRST AID MEASURES

<b>Skin contact</b>	: In case of skin contact, wash with plenty of water and soap. Organic solvents not to be used.
<b>Eye contact</b>	: In case of eye contact, immediately flush eye with plenty of water for at least 15 minutes. Contact physician.
<b>Inhalation</b>	: If inhaled, remove to fresh air, seek medical advice.
<b>Ingestion</b>	: If product is swallowed, immediately give 2 glasses of water. Obtain medical help immediately.

### 5 FIRE FIGHTING MEASURES

<b>Specific Hazards</b>	: No information available.
<b>Suitable Extinguishing Media</b>	: Water spray, carbon dioxide, foam, dry powder.
<b>Unsuitable Extinguishing Media</b>	: Water with high volume jet.
<b>Protective Equipment</b>	: Full protective clothing and self contained breathing apparatus.

### 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	: Avoid raising a dust cloud. Avoid contact with eyes, skin and clothing. Do not breathe dust or vapor.
<b>Environmental Precautions</b>	: Prevent contamination of soil, drain and surface water.
<b>Methods for cleaning up</b>	: Take up mechanically and store in suitable closed container for disposal. Avoid formation of dust.

## 7 HANDLING AND STORAGE

<b>Handling</b>	:	Avoid generation or accumulation of dust, avoid contact with skin, eyes and clothing. Do not breathe dust or fumes or vapors from heated product.
<b>Handling temperature</b>	:	Ambient
<b>Storage</b>	:	Keep container tightly closed and dry. Keep in bounded area.
<b>Storage temperature</b>	:	Ambient

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Technical measures / Precautions</b>	:	No special precautions required.
<b>Respiratory protection</b>	:	If risk of inhalation, wear respiratory mask.
<b>Hand protection</b>	:	Wear protective gloves.
<b>Eyes protection</b>	:	Wear suitable goggles or face protection.
<b>Skin and body protection</b>	:	Wear overall and closed footwear.

## 9 PHYSICAL AND TECHNICAL DATA

<b>Physical state</b>	:	White to off-white crystalline powder
<b>Odour</b>	:	Odourless
<b>Melting Point (°C)</b>	:	156-161
<b>Boiling Point</b>	:	Not available
<b>Relative density</b>	:	1.04 g/ml
<b>Flash point (°C)</b>	:	282
<b>Ignition (°C)</b>	:	410
<b>Viscosity</b>	:	Not available

## 10 STABILITY AND REACTIVITY

<b>Stability</b>	:	Quite stable under normal use conditions and thermal decomposition temperature is more than 350°C.
<b>Conditions to avoid</b>	:	Heat, flames and sparks.
<b>Materials to avoid</b>	:	Strong acids, strong bases and strong oxidizing agents.
<b>Hazardous decomposition products</b>	:	On burning may release oxides of carbon, Nitrogen and other toxic gases or vapors.

## 11 TOXICOLOGICAL INFORMATION

### Acute Toxicity

LD-50 oral toxicity on rats	:	> 2,000 mg/Kg
Skin irritation tested on rabbits	:	Non-irritant
Eye irritation tested on rabbits	:	Non-irritant
Skin sensitization	:	Negative

## 12 ECOLOGICAL INFORMATION

LC-50 Fish	:	>100 mg/l
EC-50 Daphnia	:	82 mg/l
IC-50 Bacteria	:	>100 mg/l
EC-50 Algae	:	45 mg/l
Biodegradability	:	Not biodegradable
Prevent contamination of soil, drain and surface water.		

## 13 DISPOSAL CONSIDERATIONS

Waste disposal	:	Recover on recycle if possible, Otherwise perform incineration.
Product disposal	:	Recover or recycle if possible, Otherwise perform Incineration.
Container disposal	:	Contaminated container should be disposed off. Accordingly uncontaminated container should be thoroughly cleaned with water or solvent and then can be recycled.

## 14 TRANSPORTATION INFORMATION

RID / ADR	:	Not regulated
IMDG	:	Not regulated
IATA	:	Not regulated
Flash Point (°C)	:	282

## 15 REGULATORY INFORMATION

<b>EEC No.</b>	: 245-442-7
<b>EEC Symbol</b>	: None
<b>Contains</b>	: N,N'-hexane-1,6-diylbis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionamide]
<b>R-Phrase(s)</b>	: R52/53 Harmful to aquatic organism, may cause long term adverse effects on aquatic life.
<b>S-Phrase(s)</b>	: S61 Avoid release to the environment. Refer to Especial instruction/ safety data sheet adverse effects in the aquatic environment.

## 16 OTHER INFORMATION

<b>Uses</b>	: Used primarily as an antioxidant.
<b>History</b>	: Edition no. 4 First issue 1 <sup>st</sup> May' 2006 Second issue 31 <sup>st</sup> May' 2007 Third issue 1 <sup>st</sup> May' 2008 Forth issue 1 <sup>st</sup> Sept' 2008

This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organization responsible for advising on safety matters.

The information given in this document is only a recommendation believed to be reliable and is given in good faith but without warranty. Our advice does not release users from the obligation of checking its validity and to test our products as to their suitability for the intended use. Specified properties mentioned in this document are based on our historical production performance and these properties or the whole document is subject to change without any prior notice at our sole discretion. We are under no obligation to call back earlier issued documents.