

HPL Additives Limited

MATERIAL SAFETY DATA SHEET

KINOX®-34

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

Product name : 1,3,5-Tris(3,5-di-tert.butyl-4-hydroxybenzyl)-

1,3,5-triazine-2,4,6(1H,3H,5H)-trione

Product code : KINOX®-34
Product type : Antioxidant

Supplier's name:HPL Additives Limitedand address:803, Vishal Bhawan

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Information : Product Compliance and Regulatory Affairs

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4 HAZARDS IDENTIFICATION

: No special hazard.

Not regarded as hazardous according the EU directives.

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name : 1,3,5-Tris(3,5-di-tert.butyl-4-hydroxybenzyl)-

1,3,5-triazine-2,4,6(1H,3H,5H)-trione

CAS Registry number : 27676-62-6
EINECS Number : 248-597-9
Hazardous Constituents : None

HPLA/MSDS/PE/AO/016:03

4 FIRST AID MEASURES

General : Provide rest, warmth and fresh air.

Inhalation : Remove to fresh air, if any breathing difficulty or discomfort

develops or recurs. Obtain medical attention.

Ingestion: Rinse mouth with plenty of water (do not swallow).

Do not give victim anything to drink if he is unconscious.

Do not induce vomiting. Obtain medical attention

immediately.

Skin Contact : Remove contaminated clothing. Rinse immediately with

plenty of water. Continue to rinse for at least 15 minutes.

Get medical attention if any discomfort continues.

Eye Contact : Rinse the eye with water immediately.

Continue to rinse for at least 15 minutes.

Get medical attention if any discomfort continues.

5 FIRE FIGHTING MEASURES

Extinguishing Media : Water mist/Foam/ dry powder/ carbon dioxide

Special Fire Fighting Procedures : Keep run off water out of sewers and water sources. Dike for

water control. Avoid water in straight hose stream; will scatter and spread fire. Cool containers exposed to flames with water until well after the fire is out. Move container from fire area if it can be done without risk. Keep up-wind to

avoid fumes

Unusual Fire & Explosion Hazards : Possible dust explosion hazard. Avoid accumulation

of dust and keep dust cloud away from ignition sources.

Hazardous Combustion Products : Fire or high temperature creates: Toxic gases / vapors

fumes of Carbon dioxide (CO₂), Carbon monoxide (CO).

Protective Measures in Fire : Use self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions : Avoid raising a dust cloud. Avoid contact with eyes, Skin and

clothing. Do not breathe dust or vapor.

Environmental precautions: Prevent contamination of soil, drain and surface water.

Methods for cleaning up : Take up mechanically and store in suitable closed Container for

disposal. Avoid formation of dust.

HANDLING AND STORAGE

Usage Precautions: Avoid contact with skin, eyes and clothing. Wear gloves, overalls and eye protection devices. Static electricity and

formation of sparks must be prevented. Mechanical ventilation or local exhaust ventilation is required.

Storage Precautions : Store in original container in cool dry place. Keep away

from source of ignition-no smoking. Do not store in mild steel containers (corrosive). Store away from strong

oxidizing agents.

3 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation : Avoid dust formation by use of suitable dust extraction.

Respirators : Dust mask P2 particulates.

Protective Gloves : Rubber, neoprene or PVC. Selection of a suitable glove

depends upon the work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristic of the brand of gloves used. Consult your supplier. Gloves should be replaced immediately if signs of degradation are observed. The applicable European standard can be found in EN374.

Eyes Protection : Safety glasses or goggles.

Other Protection : Wear overall or apron and closed footwear.

Provide eye wash station and safety shower.

Hygienic Work Practices: Eating, drinking and smoking should be prohibited in the work

area. Store away from food and foodstuffs. Work in accordance

with good industrial practice of the chemical industry.

9 PHYSICAL AND TECHNICAL DATA

Physical state : White crystalline powder

Odour : None

Melting point (°C) : 218 -223

Boiling point : Not available
Relative density (20°C) : Ca 1.05 gm/cc
Flash point (°C) : 289 (Open cup)
Ignition : Not established

Viscosity : Not available

10 STABILITY AND REACTIVITY

Stability : Quite stable under normal use conditions

Conditions to avoid : Heat, flames and sparks.

Materials to avoid : Strong acids, strong bases and strong oxidizing agents.

Hazardous : On burning may release oxides of carbon and other

Decomposition Products : Toxic gases or vapors.

10 TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50, Oral, Rat : >6,800mg/Kg
LD50, Skin, Rabbit : >10,000mg/Kg

13 ECOLOGICAL INFORMATION

LC-50 Fish : Not tested

EC-50 Daphnia : Not tested

LC-50 Bacteria : Not tested

EC-50 Algae : Not tested

Prevent contamination of soil, drain and surface water

13 DISPOSAL CONSIDERATIONS

Waste disposal : Recover or 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.

13 TRANSPORTATION INFORMATION

RID / ADR : Not regulated IMDG : Not regulated IATA : Not regulated

Flash Point ($^{\circ}$ C) : 289

15 REGULATORY INFORMATION

EEC Symbol : None

Contains : 1,3,5-Tris(3,5-di-tert.butyl-4-hydroxybenzyl)-

1,3,5-triazine-2,4,6(1H,3H,5H)-trione

Risk Pharases : Not Classified

This substance is listed on the following inventories:

EU **EINECS** US **TSCA** Canada DSL **Australia AICS** MITI Japan Korea ECL Philippines **PICCS** China List-I

15 OTHER INFORMATION

Uses : Used primarily as an antioxidant.

History : Edition no. 4

First issue 1st May' 2006 Second issue 31st May' 2007 Third issue 1st May' 2008 Forth issue 1st 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.