



Material Safety Data Sheet

Product: SUNOX – 445

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name/Trade name : SUNOX-445

Name of the Manufacturer : SUNSHIELD CHEMICALS LTD

N.K.M.International House, 178, Backbay Reclamation,
B.Chinai Marg,
Mumbai-400 020,
Phone Nos. +91 22- 22838293/94/95

Factory Address

At. Village Rasal, Post Pali, Taluka-Sudhagad (Pali)
Dist.Raigad.Pin-410205
Tel.No. ++91 2142-242046/242089/242226

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name : 4, 4' Bis (alpha, alpha-dimethylbenzyl) diphenylamine.
CAS No. : 10081-67-1
TSCA status : All the ingredient are on the TSCA list.

3. POSSIBLE HAZARDS

Main hazards and effects:

May cause irritation to the eyes, skin and upper respiratory system

4. FIRST AID MEASURES

Swallowing

Do not induce vomiting. Rinse mouth with water. Obtain medical attention.

Skin contact

Remove contaminated clothing. Wash thoroughly with warm water using a mild soap. Obtain medical attention if irritation persists.

Inhalation

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**HARWICK STANDARD
DISTRIBUTION CORPORATION**
60 S. Seiberling Street • Akron, Ohio 44305

Remove to fresh air. Obtain medical attention.

Eye contact

Immediately flush eyes with water and continue washing for several minutes. Obtain medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point: >250°C

Hazardous combustion product

Burning can produce the following combustion products: Oxides of carbon, Oxides of nitrogen

Special fire fighting procedures

Do not discharge extinguishing waters into streams, rivers and lakes

Special protective equipment for fire fighters

Wear self-contained breathing apparatus and protective suit.

Extinguishing media

Suitable: -CO₂

-Dry Chemical

-Water fog

Unsuitable - Water spray

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable equipment. Avoid contact with eyes and skin.

Environmental precautions

Prevent from entering sewer system, surface water or soil.

Methods for cleaning up

Absorb on inert material such as sand, earth. Collect for disposal.

7. HANDLING & STORAGE

Handling Precautions

Do not eat, drink or smoke when handling. Avoid contact with eyes, skin and clothing. Avoid breathing vapour. Use with adequate ventilation. Wash thoroughly after handling.

Storage Procedures

Containers should be stored tightly sealed in a dry place.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Limit Value-No other exposure limit have been established.

Components with workplace control parameters.

Protective equipment:

Respiratory protection	: If breathable dust is formed.
Hand protection	: Protective gloves.
Eye protection	: Safety goggles with side shields.
Skin Protection	: Chemical protective clothing.
Other protective equipment	: Eye bath, safety shower.

General safety and hygiene measures:

Before eating, drinking or smoking, wash hands and face thoroughly with soap and water.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance

Physical state	: Solid
Colour	: White to off-white
Odour	: Characteristic.

Other properties

Boiling point	: Not available
Melting point	: 98°C
Solubility in water	: Insoluble
Solubility in organic solvents	: Soluble
Flash point	: > 250°C

10. STABILITY & REACTIVITY

Stability: The product is stable under normal storage and handling conditions.

Incompatible materials: Strong oxidising agents.

Hazardous combustion product: Burning can produce following combustion products:
Oxides of carbon, oxide of nitrogen

Hazardous polymerisation: Will not occur

11. TOXICOLOGICAL INFORMATION

Component data 4,4'-Di-(alpha, alpha- dimethyl benzyl) diphenylamine Acute toxicity-Swallowing:	LD50 - Rat Result: > 10,000 mg/kg
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Component data 4,4'-Di-(alpha, alpha- dimethyl benzyl) diphenylamine Skin irritation-Skin contact:	Species: Rabbit Result: Non-irritating
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Component data 4,4'-Di-(alpha, alpha- dimethyl benzyl) diphenylamine Eye irritation-Eye contact:	Species: Rabbit Result: Non-irritating
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Mutagenicity

Component (4,4' -Di-(alpha-alpha-dimethyl benzyl) diphenylamine:
Ames-test: no mutagenic effect

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

General: Avoid discharge to sewers and natural waters. Must be disposed of by special means e.g. suitable incineration in accordance with local regulations.

Non-cleaned packages: Contaminated packs should be emptied as far as possible; they can then be passed on for recycling after being thoroughly cleaned. Containers that cannot be cleaned must be treated as waste.

14. TRANSPORT INFORMATION

Not classified as hazardous under transport regulations
ADR/IMDG and ICAO do not regulate this product.

15. REGULATORY INFORMATION

EC classification

Not classified as dangerous under the requirements of the Dangerous Substances Directive or the Dangerous Preparations Directive.

International regulations:

This material (or each component) is listed on the following inventories:

United states - TSCA

Canada - NDSL

EU - EINECS

Australia - AICS

China - ECL

Japan - ENCS

Korea - ECL

Philippines - PICCS

16. OTHER INFORMATION

For each individual delivery the specification of the Certificate of Analysis applies.

Disclaimer:

Information contained in this Material Data Sheet is believed to be reliable but no representation; guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacture/seller to ensure that the information contained in the Material Safety Data Sheet is relevant to the product manufactured/handled or sold by him as the case may be. The government makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.