



MATERIAL SAFETY DATA SHEET

Revision: 1.3

11/18/2003

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Product name: NAUGARD® BHT

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: NAUGARD® BHT

Chemical name: 2,6-di-tert-butyl-p-cresol

Supplier: Crompton Corporation
199 Benson Road
Middlebury, CT 06749, USA

Emergency telephone number: CHEMTREC (24 hours) 800-424-9300
Crompton Corporation Emergency Response (24 hours)
800-292-5898

For MSDS, Product Safety, or regulatory inquiries, call: 866-430-2775

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS#	CONCENTRATION
2,6-Di-tert-butyl-p-cresol	128-37-0	100.0 %

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION!
MAY CAUSE EYE AND SKIN IRRITATION.

AVOID DISPERSION OF DUST IN AIR TO REDUCE POTENTIAL FOR DUST IGNITION/EXPLOSIONS.

4. FIRST AID MEASURES

Swallowing

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

Skin

Wash skin with soap and water. No harmful effects expected.

Inhalation

Remove to fresh air. Obtain medical attention if symptoms persist.

Eye contact

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

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Flush eyes thoroughly with water for several minutes. Obtain medical attention if discomfort persists.

5. FIRE-FIGHTING MEASURES

Flash point: 130 °C (261 °F)**Autoignition temperature:** 470 °C (878 °F)**NFPA CLASSIFICATION**

Health: 1	Flammability: 3	Reactivity: 0	Special provisions: No data available.
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Special fire fighting procedures

Do not discharge extinguishing waters into streams, rivers and lakes.

Special protective equipment for firefighters

Body covering protective clothing, full "turn-out" gear. Self-contained breathing apparatus.

Extinguishing media

Suitable:

- CO2
- dry powder
- foam
- water fog

Unsuitable: - water spray

Unusual fire and explosion hazards

Avoid dispersion of dust in air to reduce potential for dust ignition/explosions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective equipment. Do not breath dust. Eliminate sources of ignition. Avoid contact with skin and eyes.

Environmental precautions

Prevent from entering sewer system, surface water or soil.

Methods for cleaning up

Avoid dispersion of dust.

Sweep up and collect in a suitable container for disposal.

7. HANDLING AND STORAGE

HANDLING**Handling precautions**

Normal precautions common to good safety practice should be followed in handling. Use with adequate ventilation. Avoid breathing dust. Keep container tightly closed.

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Other precautions

Keep away from sources of ignition - No smoking.

STORAGE**Storage requirements**

Keep container tightly closed in a cool, well-ventilated place. Protect from heat. In case of occurrence of dust risk of dust explosion.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION**Respiratory protection**

Dust respirator, if dusting conditions exist.

Hand protection / protective gloves

Chemical resistant protective gloves

Eye protection

Safety glasses with side shields.

Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact.

ENGINEERING CONTROLS**Ventilation**

General mechanical room ventilation is satisfactory for normal handling and storage operations.

EXPOSURE LIMITS

<u>Component</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
2,6-Di-tert-butyl-p-cresol	TWA, OSHA	10.0 mg/m ³	
	TWA, ACGIH	2.0 mg/m ³	

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	Crystalline solid
Color	White
Odor	Characteristic

OTHER PROPERTIES

Boiling point	265 °C (509 °F) at STP unless specified below.
Melting point	69 °C (156 °F) at STP unless specified below.

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Density	1.05 g/cm ³
Vapor pressure	0.01 hPa (0.01 mmHg)
Vapor density (air=1)	7.6
Solubility in water	Partially soluble
Solubility in organic solvents	Soluble
Flash point	130 °C (261 °F) Method: Closed cup
Autoignition temperature	470 °C (878 °F)

10. STABILITY AND REACTIVITY

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

Stability - Conditions to avoid
Strong oxidizing agents.

Hazardous combustion products
Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

SWALLOWING

Effects of repeated overexposure
No evidence of adverse effects from available information.

Test results

Acute toxicity: LD50 - Rat
Result: > 2,000 mg/kg

SKIN ABSORPTION**Test results**

Acute toxicity: LD50 - Rabbit
Remark: No data available.

SKIN CONTACT**Test results**

Skin irritation: Species: Rabbit
Result: Slight

EYE CONTACT

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Test results

Eye irritation: Species: Rabbit
Result: Slight

SENSITIZATION

Test results: Species: - Human
Result: Negative

Test results: Species: - Guinea pigs
Result: No data available.

MUTAGENICITY

Assessment

Ames-test: no mutagenic effect

DEVELOPMENT TOXICITY/TERATOGENICITY

Assessment

Negative

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

General: Avoid discharge to sewers and natural waters. Dispose of in accordance with appropriate Federal, State, and local regulations.

Non-cleaned packages

Empty drums should be decontaminated and either passed to an approved drum reconditioner or destroyed. Containers that cannot be cleaned must be treated as waste.

14. TRANSPORT INFORMATION

DOT Classification

This product is not regulated by DOT.

IMDG Classification

This product is not regulated by IMDG.

ICAO Classification

This product is not regulated by ICAO.

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15. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) in 40CFR355 (used for SARA 302 and 304).

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Massachusetts Right-To-Know Substance List (MSL)—Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Pennsylvania Right-To-Know Hazardous Substance List—Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name
2,6-Di-tert-butyl-p-cresol

CAS#
128-37-0

New Jersey TS Number

EPA Hazard Categories (SARA 311, 312): None

California Proposition 65

**** NONE ****

CHEMICAL INVENTORY

Canada: This product is on the DSL.

Europe: The ingredients of this mixture are on the EINECS inventory.

United States: This product is on the TSCA inventory.

Australia: This product is on the AICS inventory.

China: This product is on the IECSC Inventory.

Japan: This product is on the ENCS inventory.

Korea: This product is listed on the Existing Chemicals List (ECL).

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Philippines: This product is on the PICCS.

FDA**Food contact**

This product has numerous FDA clearances. Please contact the Product Safety and Regulatory Affairs Department of Crompton Corp. for details.

16. OTHER INFORMATION

FURTHER INFORMATION

MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand)
CONSULT REGULATORY SPECIALIST.

HMIS RATING

Health: 1	Flammability: 3	Reactivity: 0	PPI: X
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LEGEND

STP	Standard temperature and pressure
W/W	Weight/Weight
0 (HMIS)	Minimal hazard
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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The opinions expressed herein are those of qualified experts within Crompton Corporation. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of Crompton Corporation, it is the user's obligation to determine the conditions of safe use of the products.