

## SAFETY DATA SHEET

Preparation Date: 4/24/2014

Revision Date: 7/25/2018

Revision Number: G5

### 1. IDENTIFICATION

#### Product identifier

**Product code:** B1196  
**Product Name:** BUTYLATED HYDROXYTOLUENE, GRANULAR, NF

#### Other means of identification

**Synonyms:** BHT  
 Butylhydroxytoluene  
 p-Cresol, 2,6-di-tert-butyl-  
 Butylated Hydroxytoluene  
 Ionol  
 2,6-Di-tert-butyl-p-cresol  
 2,6-Bis(1,1-dimethylethyl)-4-methylphenol  
 2,6-Di-tert-butyl-1-hydroxy-4-methylbenzene  
 2,6-Di-tert-butyl-p-methylphenol  
 3,5-Di-tert-butyl-4-hydroxytoluene  
 4-Methyl-2,6-di-tert-butylphenol

**CAS #:** 128-37-0  
**RTECS #** GO7875000  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** FOOD ADDITIVE; ANTIOXIDANT FOR SYNTHETIC RUBBERS, PLASTICS, SOAPS, ANIMAL & VEGETABLE OILS; ANTISKINNING AGENT IN PAINTS & INKS; IN CHEWING GUM BASE, PACKAGING MATERIALS, BUTTER, CANDY, PARAFFIN & MINERAL OILS; EMPLOYED TO RETARD OXIDATIVE DEGRADATION OF OILS & FATS IN VARIOUS COSMETICS & PHARMACEUTICALS.

**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300

**Contact Person:** Martin LaBenz (West Coast)

**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

#### **Label elements**

##### **Warning**

##### **Hazard statements**

Harmful if swallowed  
Causes skin irritation  
Causes serious eye irritation



##### **Hazards not otherwise classified (HNOC)**

Not Applicable

##### **Other hazards**

Toxic to aquatic life with long lasting effects  
Toxic to aquatic life

##### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Wear protective gloves/protective clothing/eye protection/face protection

##### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
IF ON SKIN: Wash with plenty of water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash it before reuse  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

##### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Components</b>	<b>CAS-No.</b>	<b>Weight %</b>
Butylated Hydroxytoluene	128-37-0	100

### **4. FIRST AID MEASURES**

##### **First aid measures**

##### **General Advice:**

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

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<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
<b>Eye Contact:</b>	Flush eyes with water for 15 minutes. Get medical attention.
<b>Inhalation:</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion:</b>	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	Irritating to eyes and skin Vomiting Nausea May cause diarrhea Respiratory depression Central nervous system effects Tremors
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician:</b>	Treat symptomatically.
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**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

<b>Suitable Extinguishing Media:</b>	Dry chemical. Carbon dioxide (CO2). Water spray mist or foam.
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<b>Unsuitable Extinguishing Media:</b>	No information available.
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**Specific hazards arising from the chemical**

<b>Hazardous Combustion Products:</b>	Carbon Monoxide, Carbon Dioxide.
<b>Specific hazards:</b>	May be combustible at high temperatures.

**Special Protective Actions for Firefighters**

<b>Specific Methods:</b>	No information available.
<b>Special Protective Equipment for Firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal Precautions:</b>	Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid dust formation. Remove all sources of ignition.
<b><u>Environmental precautions</u></b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers.

### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.
<b>Methods for cleaning up</b>	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### **Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### **Incompatible Materials:**

Oxidizing agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **National occupational exposure limits**

##### **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Butylated Hydroxytoluene	128-37-0	None	10 mg/m <sup>3</sup> TWA	2 mg/m <sup>3</sup> TWA inhalable fraction and vapor	None

##### **Canada**

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Butylated Hydroxytoluene	128-37-0	10 mg/m <sup>3</sup> TWA	2 mg/m <sup>3</sup> TWA aerosol, inhalable, and vapour	None	None

## Australia and Mexico

Components	CAS-No.	Australia	Mexico
Butylated Hydroxytoluene	128-37-0	10 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup> TWA 20 mg/m <sup>3</sup> STEL

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

##### Eye protection:

Goggles

##### Skin and body protection:

Long sleeved clothing  
Chemical resistant apron  
Gloves

##### Respiratory protection:

Wear respirator with dust filter.

##### Hygiene measures:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

##### Physical state:

Solid

##### Appearance:

Granular. Crystalline.

##### Color:

White. Yellowish.

##### Odor:

Slight. Phenolic.

##### Taste

Tasteless.

##### Formula:

C<sub>15</sub>H<sub>24</sub>O

##### Molecular/Formula weight (g/mole):

220.36

##### Flammability:

No information available

##### Flashpoint (°C/°F):

127 °C/260 °F

##### Flash Point Tested according to:

Closed cup

##### Autoignition Temperature (°C/°F):

470 °C/878 °F

##### Lower Explosion Limit (%):

No information available

##### Upper Explosion Limit (%):

No information available

##### Melting point/range(°C/°F):

70 °C/158 °F

##### Decomposition temperature(°C/°F):

No information available

##### Boiling point/range(°C/°F):

265 °C/509 °F

##### Bulk density:

No information available

##### Density (g/cm<sup>3</sup>):

No information available

##### Specific gravity:

1.03-1.048 @ 2- °C

##### pH:

No information available

##### Vapor pressure @ 20°C (kPa):

No information available

##### Evaporation rate:

No information available

##### Vapor density:

7.6

##### VOC content (g/L):

No information available

##### Odor threshold (ppm):

##### Partition coefficient

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No information available

**(n-octanol/water):**  
No information available

**Viscosity:**  
No information available

**Miscibility:**  
No information available

**Solubility:**  
Insoluble in water  
Freely soluble in Toluene  
Soluble in Isopropanol  
Soluble in Methanol  
Soluble in Methyl Ethyl Ketone  
Soluble in Acetone  
Soluble in Benzene  
Soluble in Petroleum Ether  
Soluble in Ethanol

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with oxidizing agents

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Avoid dust formation. Incompatible materials.

**Incompatible Materials:** Oxidizing agents

**Hazardous decomposition products:** Carbon monoxide. Carbon dioxide.

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Ingestion. Inhalation.

### Acute Toxicity

### Component Information

Butylated Hydroxytoluene

CAS-No. 128-37-0

**LD50/oral/rat** = 890 mg/kg Oral LD50 Rat

**LD50/oral/mouse** = 650-1040 mg/kg

**LD50/dermal/rabbit** = No information available

**LD50/dermal/rat** = > 2000 mg/kg Dermal LD50 Rat

**LC50/inhalation/rat** = No information available

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = 10700mg/kg oral LD50 Guinea pig

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2100 mg/kg oral LD50 Rabbit

## Product Information

**LD50/oral/rat =**

**VALUE- Acute Tox Oral =** 890 mg/kg

**LD50/oral/mouse =**

**Value - Acute Tox Oral =** 650-1040 mg/kg

**LD50/dermal/rabbit**

**VALUE-Acute Tox Dermal =** No information available

**LD50/dermal/rat**

**VALUE -Acute Tox Dermal =** .>2000 mg/kg

**LC50/inhalation/rat**

**VALUE-Vapor =** No information available

**VALUE-Gas =** No information available

**VALUE-Dust/Mist =** No information available

**LC50/Inhalation/mouse**

**VALUE-Vapor =** No information available

**VALUE - Gas =** No information available

**VALUE - Dust/Mist =** No information available

## Symptoms

**Skin Contact:**

Causes skin irritation. Moderately irritating to the skin.

**Eye Contact:**

Causes eye irritation. Moderately irritating to the eyes.

**Inhalation**

May cause irritation of respiratory tract.

**Ingestion**

Harmful if swallowed. May cause gastritis. Ingestion may cause nausea, vomiting. May cause hypermotility, diarrhea. May affect behavior/central nervous system (tremors, muscle twitching). May affect respiration (respiratory depression).

**Aspiration hazard**

No information available.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity**

Prolonged or repeated ingestion may affect the liver. Prolonged or repeated ingestion may affect the kidneys. Prolonged or repeated ingestion may affect the thyroid and result in thyroid hyperfunction. Prolonged or repeated ingestion may affect the adrenal gland. Prolonged or repeated ingestion may affect the blood (changes in red blood cell count). Prolonged or repeated ingestion may affect the blood (changes in serum composition). Prolonged or repeated ingestion may cause weight loss. Prolonged or repeated ingestion may affect the blood (changes in clotting factors). BHT is a rare skin sensitizer and may cause allergic contact dermatitis (contact urticaria) in very sensitive individuals.

**Sensitization:**

No information available.

**Mutagenic Effects:**

May affect genetic material  
Mutations in microorganisms  
Mutagenic effects in mammalian somatic cells

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Experiments with animal lymphocytes have shown mutagenic effects

**Carcinogenic effects:** Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Butylated Hydroxytoluene	128-37-0	Group 3 - Not Classifiable - Supplement 7 [1987] Monograph 40 [1986]	A4 Not Classifiable as a Human Carcinogen	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available  
**Developmental Effects:** May cause adverse developmental effects based on animal data  
Butylated hydroxytoluene has adverse effects on development in experimental animals only at exposure levels well above typical human exposures  
**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target Organs:** Liver. Skin. Eyes.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

*Butylated Hydroxytoluene - 128-37-0*

**Freshwater Algae Data:** 6 mg/L EC50 *Pseudokirchneriella subcapitata* 72 h 0.42 mg/L EC50 *Desmodesmus subspicatus* 72 h

**Freshwater Fish Species Data:** 5 mg/L LC50 *Oryzias latipes* 48 h 1

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Methods**

**Waste from residues / unused products:**

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Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Butylated Hydroxytoluene	128-37-0	None	None	None	None

#### 14. TRANSPORT INFORMATION

**DOT**

**UN-No:** UN3077  
**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.(butylated hydroxytoluene)  
**Hazard Class:** 9  
**Subsidiary Class** No information available  
**Packing group:** III  
**Emergency Response Guide Number** No information available  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** No Information available  
**Symbol(s):** [DOT]: (G) - Identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parentheses, in association with the basic description.  
**Description:** UN3077,Environmentally hazardous substance, solid, n.o.s. ,9,,PG III

**TDG (Canada)**

**UN-No:** UN3077  
**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.(butylated hydroxytoluene)  
**Hazard Class:** 9  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** Marine Pollutant  
**Description:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.,9,UN3077,PG III

**ADR**

**UN-No:** UN3077  
(exception <5 liters for liquids and < 5 kilogram for solids - per single packagings or combination packagings per inner packaging)  
**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.(butylated hydroxytoluene)  
**Hazard Class:** 9  
**Packing Group:** III  
**Subsidiary Risk:** No information available  
**Description:** UN3077 Environmentally hazardous substance, solid, n.o.s.,9,III

**IMO / IMDG**

**UN-No:** UN3077  
**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (butylated hydroxytoluene)  
**Hazard Class:** 9  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** Marine Pollutant  
**EMS:** F-A

**RID**

**UN-No:** UN3077

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**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (butylated hydroxytoluene)  
**Hazard Class:** 9  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** UN3077 Environmentally hazardous substance, solid, n.o.s.,9,III,RID

#### ICAO

**UN-No:** UN3077  
**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.(butylated hydroxytoluene)  
**Hazard Class:** 9  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** Environmentally hazardous substance, solid, n.o.s.,9,UN3077,PG III

#### IATA

**UN-No:** UN3077  
**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.(butylated hydroxytoluene)  
**Hazard Class:** 9  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**ERG Code:** 9L  
**Special Provisions** No information available  
**Description:** UN3077,Environmentally hazardous substance, solid, n.o.s.,9,PG III

### 15. REGULATORY INFORMATION

#### International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Butylated Hydroxytoluene	128-37-0	PresentACTIVE	Present KE-03079	Present	Present (9)-1805,(5)-6 372,(3)-540	Present	Present	Present 204-881-4

#### U.S. Regulations

##### Butylated Hydroxytoluene

**Massachusetts RTK:** Present

**New Jersey RTK Hazardous Substance List:** 0814

**Pennsylvania RTK:** Present

**Minnesota - Hazardous Substance List:** Present

**California Directors List of Hazardous Substances:** Present

**FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 182.3173

**FDA - Direct Food Additives** 21 CFR 172.115, 21 CFR 172.615, 21 CFR 173.340

**FDA - 21 CFR - Total Food Additives** 137.350, 166.110, 172.110, 172.115, 172.185, 172.615, 173.340, 175.105, 175.125, 175.300, 175.380, 175.390, 176.170, 176.210, 177.1010, 177.1210, 177.1350, 177.2260, 177.2600, 178.2010, 178.3570, 179.45, 181.24, 182.3173

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

##### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

##### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Butylated Hydroxytoluene	128-37-0	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Butylated Hydroxytoluene	128-37-0	None	None	None	None	None

**U.S. TSCA**

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Butylated Hydroxytoluene	128-37-0	Not Applicable	Not Applicable

**Canada****WHMIS 2015 - GHS Classifications**

WHMIS 2015 Hazard Classification Information:

Component  
Butylated Hydroxytoluene  
128-37-0 ( 100 )

WHMIS 2015 Hazard Classification  
Combustible Dust - Category 1: May form combustible dust concentrations in air (factors such as combustibility and explosiveness of dusts including composition and shape and size of particles could cause substance to belong to 'Combustible dust' hazard class)

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

**WHMIS 1988 Hazard Class**

D2B Toxic materials

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Butylated Hydroxytoluene	1 %

**Inventory**

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Butylated Hydroxytoluene	128-37-0	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Butylated Hydroxytoluene	128-37-0	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Butylated Hydroxytoluene	128-37-0	Not listed

**EU Classification****EU GHS - SV - CLP 1272/2008**

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Butylated Hydroxytoluene	128-37-0	No information

**EU - CLP (1272/2008)**

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**R-phrase(s)**

R22 - Harmful if swallowed.

R36/38 - Irritating to eyes and skin.

**S -phrase(s)**

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S46 - If swallowed, seek medical advice immediately and show this container or label.

S37/39 - Wear suitable gloves and eye/face protection.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Butylated Hydroxytoluene	128-37-0		No information	

**The product is classified in accordance with Annex VI to Directive 67/548/EEC****Indication of danger:**

Xn - Harmful.

Xi - Irritant.

**Xn****Xi****16. OTHER INFORMATION**

**Preparation Date:** 4/24/2014  
**Revision Date:** 7/25/2018  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**