Dear Customer,

This File Contains Both The ANSI Material Safety Data Sheet and The GHS Safety Data Sheet For The Same Product

Spectrum is currently transitioning all chemical product labeling from the ANSI¹ format to the GHS² format (see note below). In order to ensure that you receive complete labeling during the transition, we have included both the ANSI MSDS and the GHS SDS in a single file. The ANSI MSDS is given first, followed by the GHS SDS. Please use whichever matches the container label.

Why It Matters:

The complete precautionary labeling for this chemical consists of BOTH the label on the container AND the matching Material Safety Data Sheet (for ANSI labels) or Safety Data Sheet (for GHS labels). Both elements of the labeling [Label + (M)SDS] are written to be read and understood together, so as to provide complete precautionary information. It is intended for you to read and understood BOTH before handling or using the chemical.

Picking the Right One: 2 Easy Ways To Tell Whether Your Container Has an ANSI Label or a GHS Label

1) GHS labels: any pictogram displayed in the upper left-hand corner will be inside a red diamond. ANSI labels: pictograms, if present, will be inside individual black boxes.

2) GHS labels: on the bottom of the right-hand panel of the label, locate the Lot Number. Directly to the left will be a string of control characters, followed by a single letter. For GHS labels, the string of characters will end in "GHS."

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¹ ANSI: American National Standards Institute
² GHS: Global Harmonized System of Classification and Labelling of Chemicals

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C O R P O R A T E O F F I C I E S
14422 South San Pedro Street
Gardena, California 90248
PHONE 310.516.8000
FAX 310.516.9843

Sincerely,

Regulatory Affairs

1 American National Standards Institute
2 Globally Harmonized System for Hazard Communication
# Material Safety Data Sheet

## 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>![1]</td>
<td>![2]</td>
<td>![0]</td>
</tr>
</tbody>
</table>

**Product code:** B1196

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

**Chemical Name:** No information available

**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

**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.

**CAS #:** 128-37-0

**RTECS #** GO7875000

**Formula:** C15-H24-O

**Ci#:** Not available

**Supplier:** Spectrum Chemicals and Laboratory Products, Inc.
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:**
- Regina Wachenheim (East Coast)
- Martin LaBenz (West Coast)
2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
WARNING! IRRITANT
Irritating to eyes
Irritating to skin
May be harmful if swallowed

OSHA Regulatory Status
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Potential Health Effects:

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:
May be harmful if swallowed. May cause gastritis. May cause nausea. May cause vomiting. May cause diarrhea. May affect respiration. May cause central nervous system effects.

Chronic Potential Health Effects:

Component | Carcinogen Status:
Butylated Hydroxytoluene | A4- Not Classifiable as a Human Carcinogen by ACGIH
128-37-0 (100) | Group 3-Not classifiable as to its carcinogenicity to humans by IARC

Target Organs:
Liver. Skin. Eyes.

Mutagenic Effects:
May affect genetic material
Mutations in microorganisms
Mutagenic effects in mammalian somatic cells
Experiments with animal lymphocytes have shown mutagenic effects

Teratogenic Effects:
No information available

Aggravated Medical Conditions:
No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

Product code: B1196
Product name: BUTYLATED HYDROXYTOLUENE, GRANULAR, NF
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
<td>128-37-0</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General Advice: Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126).

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Notes to Physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties

Flashpoint (°C/°F): 127 °C/260 °F

Flash Point Tested according to: Closed cup

Lower Explosion Limit (%): No information available
Upper Explosion Limit (%): No information available

Autoignition Temperature (°C/°F): 470 °C/878°F

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray mist or foam.

Unsuitable Extinguishing Media: No information available.

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide

Specific hazards: May be combustible at high temperatures.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Specific Methods: No information available.
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid dust formation. Remove all sources of ignition.

Environmental Precautions:
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers.

Methods for Cleaning Up:
Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

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 vapours/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Storage

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

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.

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.

National occupational exposure limits

<table>
<thead>
<tr>
<th>United States</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Product code: B1196  Product name: BUTYLATED HYDROXYTOLUENE, GRANULAR, NF
9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.  
Appearance: Granular. Crystalline.  

Taste: Tasteless.  
Molecular/Formula weight: 220.36

Flash point (°C): 127  
No information available  
Upper Explosion Limit (%): No information available

Autoignition Temperature (°C/°F): 470 °C/878 °F  
Boiling point/range(°C/°F): 265 °C/509 °F

pH: No information available  
Specific gravity: 1.03-1.048 @ 2 °C  
Density (g/cm3): No information available

Decomposition temperature(°C/°F): No information available  
Bulk density: 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): No information available  
Partition coefficient (n-octanol/water): 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

Stability: Stable at normal conditions


Incompatible Materials: Oxidizing agents.
Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

Possibility of Hazardous Reactions: No information available

Polymerization: Hazardous polymerisation does not occur

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Butylated Hydroxytoluene - 128-37-0

LD50/oral/rat = 890 mg/kg Oral LD50 Rat
LD50/oral/mouse = 650-1040 mg/kg
LD50/dermal/rat = >2000 mg/kg
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = 10700mg/kg oral LD50 Guinea pig
2100 mg/kg oral LD50 Rabbit

Product Information

LC50/inhalation/rat No information available
LC50/inhalation/mouse No information available
LD50/dermal/rabbit No information available
LD50/dermal/rat >2000mg/kg
LD50/oral/mouse = 650-1040mg/kg
LD50/oral/rat = 890mg/kg

Local Effects

Skin irritation: Causes skin irritation. Moderate skin irritation.

Eye irritation: Causes eye irritation. Moderate eye irritation.

Inhalation: May cause irritation of respiratory tract

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

Sensitization: No information available

Chronic Toxicity

Product code: B1196

Product name: BUTYLATED HYDROXYTOLUENE, GRANULAR, NF
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.

Carcinogenic effects:

Not considered carcinogenic

<table>
<thead>
<tr>
<th>Components</th>
<th>NTP</th>
<th>IARC</th>
<th>OSHA HCS - Carcinogens</th>
<th>ACGIH - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
</tr>
</thead>
</table>

Mutagenic Effects:

May affect genetic material
Mutations in microorganisms
Mutagenic effects in mammalian somatic cells
Experiments with animal lymphocytes have shown mutagenic effects

Reproductive Effects:

May cause adverse developmental effects based on animal data.

Teratogenic Effects:

No information available

Target Organs:

Liver. Skin. Eyes.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: Information given is based on data on the components and the ecotoxicology of similar products

Ecotoxicity effects: Aquatic environment.

Aquatic toxicity:

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

Mobility: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
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

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
UN-No: Not regulated.
Not Regulated for Transportation unless all or part of the transportation is by vessel (applies to bulk and non-bulk shipments). For bulk shipments by ground only, it may be transported as a marine pollutant (regulated as UN3077, Class 9 "Environmentally Hazardous Substances, solid") because it meets the requirement of Chapter 2.9 of the IMDG code, but it is not mandatory by DOT because it is not on the DOT Marine Pollutant list in 49CFR Appendix B to 172.10

Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: None
Subsidiary Risk: Not applicable
Marine Pollutant: No data available
ERG No: No information available
DOT RQ (lbs): No information available

TDG (Canada)
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available
Description: No information available

ADR
UN-No: UN3077
(Environmentally hazardous substance, solid, n.o.s. - 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.
Hazard Class: 9
Packaging Group: III
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG
UN-No: UN3077
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s.
Hazard Class: 9
Packaging Group: III
Subsidiary Risk: No information available
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
EMS: F-A
MFAG: No information available
Maximum Quantity: No information available

Product code: B1196
Product name: BUTYLATED HYDROXYTOLUENE, GRANULAR, NF
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>Philippines (PICCS)</th>
<th>KOREA KECL</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
<td>Present</td>
<td>Present</td>
<td>Present KE-03079</td>
<td>Present (9)-1805 (5)-6372 (3)-540</td>
<td>Present</td>
<td>Present</td>
<td>Present 204-881-4</td>
</tr>
</tbody>
</table>

U.S. Regulations

Butylated Hydroxytoluene

- Massachusetts RTK: Present
- New Jersey RTK Hazardous Substance List: Present
- 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


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)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

CERCLA/SARA

Product code: B1196
Product name: BUTYLATED HYDROXYTOLUENE, GRANULAR, NF
### Components

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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</tbody>
</table>

### U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

### Canada

**WHMIS 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.

<table>
<thead>
<tr>
<th>Components</th>
<th>WHMIS Ingredient Disclosure List -</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
<td>1 %</td>
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</tbody>
</table>

### Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
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<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

### EU Classification

**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.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
<td></td>
<td>No information</td>
<td></td>
</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Product code:** B1196  **Product name:** BUTYLATED HYDROXYTOLUENE, GRANULAR, NF
Indication of danger:
Xn - Harmful.
Xi - Irritant.

16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1/Z129.1-2010 standards.

Preparation Date: 28-Apr-2014
Reason for revision: Not applicable
Prepared by: Sonia Owen
Literature reference: No information available

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) 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 MSDS. The physical properties reported in this MSDS 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 MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.
SAFETY DATA SHEET

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 Chemicals and Laboratory Products, Inc.
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: Regina Wachenheim (East Coast)

2. HAZARDS IDENTIFICATION

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

Hazard statements 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
Specific treatment (see .? on this label)
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 soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash 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

<table>
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<tr>
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<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
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<td>128-37-0</td>
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4. FIRST AID MEASURES
4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126).

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: 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


Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

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

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray mist or foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon monoxide; Carbon dioxide

Specific hazards: May be combustible at high temperatures.

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: 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

Personal Precautions: Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid dust formation. Remove all sources of ignition.

Environmental precautions: 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

Product code: B1196
Product name: BUTYLATED HYDROXYTOLUENE, GRANULAR, NF
Methods for containment
Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up
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 vapours/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

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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<tbody>
<tr>
<td>Butylated Hydroxytoluene - 128-37-0</td>
<td>None</td>
<td>10 mg/m³ TWA</td>
<td>2 mg/m³ TWA inhalable fraction and vapor</td>
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</table>

Canada

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<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
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<td>10 mg/m³ TWA</td>
<td>2 mg/m³ TWA aerosol, inhalable, and vapour</td>
<td>2 mg/m³ TWA inhalable fraction and vapor</td>
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Australia and Mexico

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<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene - 128-37-0</td>
<td>10 mg/m³ TWA</td>
<td>10 mg/m³ TWA</td>
</tr>
</tbody>
</table>

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

Product code: B1196  Product name: BUTYLATED HYDROXYTOLUENE, GRANULAR, NF
### 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

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<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
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<table>
<thead>
<tr>
<th>Odor:</th>
<th>Taste</th>
<th>Formula:</th>
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<table>
<thead>
<tr>
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<th>Flash point (°C):</th>
<th>Flashpoint (°C/°F):</th>
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</thead>
<tbody>
<tr>
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<td>127</td>
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<table>
<thead>
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<th>Upper Explosion Limit (%):</th>
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<table>
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<th>Bulk density:</th>
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<tr>
<td></td>
<td>Soluble in Methanol</td>
</tr>
<tr>
<td></td>
<td>Soluble in Methyl Ethyl Ketone</td>
</tr>
<tr>
<td></td>
<td>Soluble in Acetone</td>
</tr>
<tr>
<td></td>
<td>Soluble in Benzene</td>
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<tr>
<td></td>
<td>Soluble in Petroleum Ether</td>
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<tr>
<td></td>
<td>Soluble in Ethanol</td>
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<thead>
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<table>
<thead>
<tr>
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<th>Taste</th>
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</table>

<table>
<thead>
<tr>
<th>pH:</th>
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</tr>
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<table>
<thead>
<tr>
<th>Specific gravity:</th>
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<td>1.03-1.048 @ 2- °C</td>
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<th>Density (g/cm3):</th>
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<table>
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<tr>
<th>Evaporation rate:</th>
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</thead>
<tbody>
<tr>
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</table>

<table>
<thead>
<tr>
<th>Odor threshold (ppm):</th>
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</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Partition coefficient (n-octanol/water):</th>
<th>No information available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insoluble in water</td>
<td></td>
</tr>
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<td></td>
</tr>
<tr>
<td>Soluble in Ethanol</td>
<td></td>
</tr>
</tbody>
</table>

## 10. STABILITY AND REACTIVITY

### Reactivity
Reactive with oxidizing agents

### Chemical stability
Stable at normal conditions

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

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 - 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
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = 10700mg/kg oral LD50 Guinea pig
2100 mg/kg oral LD50 Rabbit

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 890mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = 650-1040mg/kg

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE -Acute Tox Dermal = >2000mg/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
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). 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
Experiments with animal lymphocytes have shown mutagenic effects

Carcinogenic effects: Not considered carcinogenic

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH - Carcinogens</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
</tr>
</thead>
</table>

Reproductive toxicity: No data is available

Reproductive Effects: No information available
Developmental Effects: May cause developmental effects based on animal data.
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.

Product code: B1196

Product name: BUTYLATED HYDROXYTOLUENE, GRANULAR, NF
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

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:
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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: Not regulated.

Proper Shipping Name: No information available

Hazard Class: No information available

Subsidiary Risk: Not applicable

Packing Group: None

Marine Pollutant: No data available

ERG No: No information available

DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name: No information available

Hazard Class: No information available

Subsidiary Risk: No information available

Product code: B1196

Product name: BUTYLATED HYDROXYTOLUENE, GRANULAR, NF
### 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Description</th>
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**ADR**

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**IMO / IMDG**

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<td>MFAG:</td>
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**RID**

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**ICAO**

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**IATA**

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### 15. REGULATORY INFORMATION

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<tr>
<td>Product code:</td>
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<td>Product name:</td>
<td>BUTYLATED HYDROXYTOLUENE, GRANULAR, NF</td>
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15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL (PICCS)</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS (5)-6372 (3)-540</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<td>Present KE-03079</td>
<td>Present</td>
<td>Present</td>
<td>Present</td>
<td>Present</td>
<td>Present 204-881-4</td>
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</table>

U.S. Regulations

**Butylated Hydroxytoluene**

- Massachusetts RTK: Present
- New Jersey RTK Hazardous Substance List: Present
- 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

**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)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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<tbody>
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<td>Not Listed</td>
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**CERCLA/SARA**

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<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<tbody>
<tr>
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**U.S. TSCA**

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<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Canada

**WHMIS 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.

<table>
<thead>
<tr>
<th>Components</th>
<th>WHMIS Ingredient Disclosure List -</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
<td>1 %</td>
</tr>
</tbody>
</table>

Inventory

**Product code:** B1196

**Product name:** BUTYLATED HYDROXYTOLUENE, GRANULAR, NF
## Components

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
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</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
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</tbody>
</table>

## Components

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
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</thead>
<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

## EU Classification

**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 Classification Concentration Limits: Safety Phrases

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<tbody>
<tr>
<td>Butylated Hydroxytoluene</td>
<td></td>
<td>No information</td>
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</tr>
</tbody>
</table>

## The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**
- Xn - Harmful.
- Xi - Irritant.

\[ \begin{array}{cc}
\text{Xn} & \text{Xi} \\
\end{array} \]

## 16. OTHER INFORMATION

*Product code: B1196 Product name: BUTYLATED HYDROXYTOLUENE, GRANULAR, NF*
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Health Hazard: 2  Fire Hazard: 1  Reactivity: 0

Preparation Date: 4/24/2014
Revision Date: 4/24/2014
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 Material Safety Data Sheet

Contact Distributor

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