SAFETY DATA SHEET

Preparation Date: 3/12/3015
Revision Date: 9/5/2018
Revision Number: G3

1. IDENTIFICATION

Product identifier

Product code: P1453
Product Name: PROPYL GALLATE, NF

Other means of identification
Synonyms: 3,4,5-Trihydroxybenzoic acid propyl ester; 3,4,5-Trihydroxybenzene-1-propylcarboxylate; Benzoic acid, 3,4,5-trihydroxy-, propyl ester; n-Propyl 3,4,5-trihydroxybenzoate; n-Propyl ester of 3,4,5-trihydroxybenzoic acid; Propyl 3,4,5-trihydroxybenzoate

CAS #: 121-79-9
RTECS #: LW8400000
Cl#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
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)

Skin sensitization Category 1

Label elements

Warning

Hazard statements
May cause an allergic skin reaction
Hazards not otherwise classified (HNOC)  
Not Applicable

Other hazards  
May be harmful if swallowed

Precautionary Statements - Prevention  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing must not be allowed out of the workplace  
Wear protective gloves

Precautionary Statements - Response  
IF ON SKIN: Wash with plenty of water  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse

Precautionary Statements - Disposal  
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propyl Gallate</td>
<td>121-79-9</td>
<td>100</td>
</tr>
</tbody>
</table>

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.

Skin Contact: 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.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

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. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms  
May cause an allergic skin reaction  
May affect the gastrointestinal system  
Dyspnea (Shortness of breath and difficulty breathing)  
Convulsions

Product code: P1453  
Product name: PROPYL GALLATE, NF
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: Carbon dioxide (CO2). Dry chemical. 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. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

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. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

Safe Handling Advice

Product code: P1453
Product name: PROPYL GALLATE, NF
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors/dust. 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:
Acids
Alkalis
Oxidizing agents
Reducing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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<td>Propyl Gallate</td>
<td>121-79-9</td>
<td>None</td>
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Canada

<table>
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<tr>
<th>Components</th>
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<th>Canada - Alberta</th>
<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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Australia and Mexico

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<th>Mexico</th>
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<tr>
<td>Propyl Gallate</td>
<td>121-79-9</td>
<td>None</td>
<td>None</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

Eye protection: Goggles or Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron
Gloves
Long sleeved clothing
Respiratory protection: Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

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

<table>
<thead>
<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>

<table>
<thead>
<tr>
<th>Molecular/Formula weight (g/mole):</th>
<th>Flammability:</th>
<th>Flashpoint (°C/°F):</th>
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</thead>
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<tr>
<td>212.20</td>
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<td>86.1°C/187°F</td>
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<table>
<thead>
<tr>
<th>Flash Point Tested according to:</th>
<th>Autoignition Temperature (°C/°F):</th>
<th>Lower Explosion Limit (%):</th>
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<tr>
<td>Closed cup</td>
<td>438°C/820.4°F</td>
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<tr>
<th>Upper Explosion Limit (%):</th>
<th>Melting point/range(°C/°F):</th>
<th>Decomposition temperature(°C/°F):</th>
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<tr>
<td>No information available</td>
<td>130°-150°C/266°-302°F</td>
<td>330°C/626°F</td>
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<table>
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<th>Boiling point/range(°C/°F):</th>
<th>Bulk density:</th>
<th>Density (g/cm3):</th>
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<table>
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<tr>
<th>Specific gravity:</th>
<th>pH:</th>
<th>Vapor pressure @ 20°C (kPa):</th>
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<table>
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<tr>
<th>Evaporation rate:</th>
<th>Vapor density:</th>
<th>VOC content (g/L):</th>
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<td>7.3</td>
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<table>
<thead>
<tr>
<th>Odor threshold (ppm):</th>
<th>Partition coefficient (n-octanol/water):</th>
<th>Viscosity:</th>
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<td>1.8</td>
<td>No information available</td>
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<tr>
<th>Miscibility:</th>
<th>Solubility:</th>
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<tbody>
<tr>
<td>No information available</td>
<td>Soluble in diethyl ether</td>
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</tbody>
</table>

Very slightly soluble in cold water

Solubility in Alcohol: 103g/100g @ 25°C
Solubility in Cottonseed oil: 1.23g/100g @ 30°C
Solubility in Ether: 83g/100g @ 25°C
Solubility in Lard: 1.14g/100g @ 45°C
Solubility in Water: 0.35g/100ml @ 25°C

10. STABILITY AND REACTIVITY

Reactivity
Reactive with acids
Reactive with alkalis
Reactive with oxidizing agents
Reacts with reducing agents

Chemical stability

Product code: P1453  Product name: PROPYL GALLATE, NF
Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur


Incompatible Materials:
- Acids
- Alkalis
- Oxidizing agents
- Reducing agents

Hazardous decomposition products: No information available.

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

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50/oral/rat</th>
<th>LD50/oral/mouse</th>
<th>LD50/dermal/rabbit</th>
<th>LD50/dermal/rat</th>
<th>LC50/inhalation/rat</th>
<th>LC50/inhalation/mouse</th>
<th>Other LD50 or LC50 Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propyl Gallate</td>
<td>2100 mg/kg</td>
<td>1700 mg/kg</td>
<td>No information</td>
<td>No information</td>
<td>No information</td>
<td>No information</td>
<td>380 mg/kg Intraperitoneal LD50 Rat; 2480 mg/kg Oral LD50 Hamster; &gt;6 mg/kg Oral LD50 Pig; 2750 mg/kg Oral LD50 Rabbit</td>
</tr>
</tbody>
</table>

Product Information

<table>
<thead>
<tr>
<th>LD50/oral/rat =</th>
<th>VALUE - Acute Tox Oral = 2100 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50/oral/mouse =</td>
<td>Value - Acute Tox Oral = 1700 mg/kg</td>
</tr>
<tr>
<td>LD50/dermal/rabbit =</td>
<td>VALUE - Acute Tox Dermal = No information available</td>
</tr>
<tr>
<td>LD50/dermal/rat =</td>
<td>VALUE - Acute Tox Dermal = No information available</td>
</tr>
</tbody>
</table>

Product code: P1453  Product name: PROPYL GALLATE, NF
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: May cause skin irritation.
Eye Contact: May cause eye irritation.
Inhalation May cause irritation of respiratory tract.
Ingestion Low hazard. May affect the gastrointestinal system. May affect behavior/central nervous system (convulsions/seizures). May affect respiration (dyspnea - difficulty breathing and shortness of breath). May affect the kidneys.

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 skin contact may cause allergic reaction. Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated ingestion may affect the liver.
Sensitization: May cause sensitization by skin contact.
Mutagenic Effects: May affect genetic material
Mutations in microorganisms
Mutagenic effects in mammalian somatic cells

Carcinogenic effects: Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propyl Gallate</td>
<td>121-79-9</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

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: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

Product code: P1453  Product name: PROPYL GALLATE, NF
STOT - single exposure  No information available.
STOT - repeated exposure  No information available.
Target Organs:  No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:  No data available.
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>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Propyl Gallate</td>
<td>121-79-9</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 Class:  No information available
Packing Group:  No information available
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):  No information available
Description:  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
Packing Group:  No information available
Marine Pollutant:  No Information available
Description:  No information available

Product code:  P1453  Product name:  PROPYL GALLATE, NF
ADR
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

IMO / IMDG
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No information available

RID
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

ICAO
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

IATA
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
ERG Code: No information available
Special Provisions: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propyl Gallate</td>
<td>121-79-9</td>
<td>Present ACTIV E</td>
<td>Present KE-34290</td>
<td>Present (3)-1583</td>
<td>Present</td>
<td>Present</td>
<td>Present</td>
<td>Present 204-498-2</td>
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</table>

U.S. Regulations

Propyl Gallate
FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1660
FDA - Direct Food Additives 21 CFR 172.615
FDA - 21 CFR - Total Food Additives 166.110, 172.615, 175.125, 175.300, 175.380, 175.390, 176.170, 177.1010, 177.1210, 177.1350, 181.24, 184.1660


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)

Product code: P1453  Product name: PROPYL GALLATE, NF
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>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</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>
<td>Propyl Gallate</td>
<td>121-79-9</td>
<td>None</td>
<td>None</td>
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U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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<tbody>
<tr>
<td>Propyl Gallate</td>
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Canada

WHIMIS 2015 - GHS Classifications

<table>
<thead>
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<th>WHIMIS 2015 Hazard Classification Information:</th>
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<tbody>
<tr>
<td>The WHIMIS 2015 classification of this product has not been validated or reviewed yet.</td>
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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

Inventory

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<th>Components</th>
<th>CAS-No.</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
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<tbody>
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<th>Components</th>
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<th>Components</th>
<th>CAS-No.</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
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<td>Propyl Gallate</td>
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EU Classification

EU GHS - SV - CLP 1272/2008

<table>
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<th>Components</th>
<th>CAS-No.</th>
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<tbody>
<tr>
<td>Propyl Gallate</td>
<td>121-79-9</td>
<td>Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Skin sensitizers - Skin Sens. 1: H317 May cause allergic skin reaction.607-198-00-3</td>
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</tbody>
</table>

EU - CLP (1272/2008)

Product code: P1453 Product name: PROPYL GALLATE, NF
R-phrase(s)
R22 - Harmful if swallowed.
R43 - May cause sensitization by skin contact.

S-phrase(s)
S24 - Avoid contact with skin.
S37 - Wear suitable gloves.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<td>Xn; R22</td>
<td>No information</td>
<td>S2 S24 S37</td>
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<td>R43</td>
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The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Xn - Harmful.

16. OTHER INFORMATION

Preparation Date: 3/12/3015
Revision Date: 9/5/2018
Prepared by: Sonia Owen

Disclaimer:
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End of Safety Data Sheet