Propylparaben NF, BP, EP MSDS
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 ANSI\textsuperscript{1} format to the GHS\textsuperscript{2} 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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### Label in ANSI Format

![Image of an ANSI label]

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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

A Division of Spectrum Chemical Mfg. Corp.
www.spectrumchemical.com
\[\text{Label in GHS Format}\]

**Benzyl Benzoate**

(\text{Benzene And Phenylmethyl Ester})

\text{U.S.P.}

\text{CAS 129-51-4}

\text{Lot No. XQ####}

\begin{itemize}
  \item \text{Assay:} \quad \text{90.0-100.5}\%\text{, Specific Gravity:} \quad 1.166-1.170
  \item \text{Refractive Index:} \quad 1.568-1.570
  \item \text{Acidity:} \quad \text{To pass test}
  \item \text{Aldehydes:} \quad \text{0.05}\%\text{, Residual Solvents:} \quad \text{To pass test}
\end{itemize}

\begin{itemize}
  \item \text{MAXIMUM LIMITS:}
  \item \text{LIGHT SENSITIVE: Keep tightly closed in light-resistant containers.}
  \item \text{FLUSHED WITH NITROGEN}
\end{itemize}

---

1. American National Standards Institute
2. Globally Harmonized System for Hazard Communication

\textbf{Sincerely,}

\textbf{Regulatory Affairs}
MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product code: PR133
Product Name: PROPYPARABEN, NF, EP, BP, JP
Chemical Name: No information available
Synonyms: Aseptoform P; Betacide P; Bonomold P; Nipasol; Parben; Parasept; Paseptol; Preserval P; Propyl aseptoform; Propyl chemosept; Propyl parasept; Protaben P; Tegosept P; Propyl-p-hydroxybenzoate; n-Propyl-p-hydroxybenzoate; Benzoic acid, 4-hydroxy-, propyl ester; p-Hydroxybenzoic acid propyl ester; p-Hydroxypropyl benzoate; Benzoic Acid, p-hydroxy-, propyl ester

Recommended use: Antibacterial. Preservative.
CAS #: 94-13-3
RTECS #: DH2800000
Formula: C10-H12-O3
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)
Contact Person: Martin LaBenz (West Coast)

2. HAZARDS IDENTIFICATION

See Section 8.
2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
May cause skin and eye irritation
May cause allergic skin reaction

<table>
<thead>
<tr>
<th>Odor:</th>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
</tr>
</thead>
</table>

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. Skin.

Acute Potential Health Effects:

Skin Contact:
May cause skin irritation. May cause sensitization by skin contact. May cause allergic skin reaction.

Eye Contact:
May cause eye irritation.

Inhalation:
May cause irritation of respiratory tract.

Ingestion:
May cause digestive (gastrointestinal) tract irritation.

Chronic Potential Health Effects:

Component | Carcinogen Status: |
-----------|--------------------|
Propylparaben 94-13-3 (100) | No information available |

Target Organs: No information available

Mutagenic Effects: May affect genetic material

Teratogenic Effects: No information available

Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylparaben</td>
<td>94-13-3</td>
<td>100</td>
</tr>
</tbody>
</table>

Product code: PR133
Product name: PROPYPARABEN, NF, EP, BP, JP
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 irritation develops. Consult a physician if necessary.

Eye Contact: Flush eye 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.

Notes to Physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties

Flashpoint (°C/°F): No information available.

Flash Point Tested according to: Not available

Lower Explosion Limit (%): No information available

Upper Explosion Limit (%): No information available

Autoignition Temperature (°C/°F): No information available

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. 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. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.

Product code: PR133
Product name: PROPYLPARABEN, NF, EP, BP, JP
Environmental Precautions:
Prevent further leakage or spillage. 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. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. 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:
Strong oxidizing agents. Bases.

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: Safety glasses. Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Effective dust mask. 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

United States
U.S Occupational Exposure Limits: Not determined

<table>
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<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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</table>

Canada
Canada Occupational Exposure Limits: Not determined

### Components

<table>
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<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
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<th>Quebec</th>
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**Australia and Mexico**

**Occupational Exposure Limits for Australia and Mexico:** Not determined

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<th>Components</th>
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<th>Mexico</th>
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</thead>
<tbody>
<tr>
<td>Propylparaben 94-13-3</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Physical state:** Solid.
- **Appearance:** Crystals. Crystalline powder.
- **Odor:** Odorless.
- **Taste:** No information available
- **Flash point (°C):** No data available
- **Lower Explosion Limit (%):** No information available
- **Autoignition Temperature (°C/°F):** No information available
- **Melting point/range (°C/°F):** 96-97 °C/204.8-206.6 °F
- **pH:** No information available
- **Specific gravity:** 1.0630 @ 102 °C
- **Decomposition temperature (°C/°F):** No information available
- **Bulk density:** No information available
- **Evaporation rate:** No information available
- **Vapor density:** No information available
- **Odor threshold (ppm):** No information available
- **Partition coefficient (n-octanol/water):** 3.04
- **Solubility:**
  - Very slightly soluble in water
  - Soluble in Acetone
  - Soluble in Ether
  - Freely soluble in alcohol
- **Molecular/Formula weight:** 180.20
- **Color:** White.
- **Density (g/cm3):** No information available
- **Melting point (°F):** No information available
- **Boiling point (°F):** No information available
- **Autoignition Temperature (°C/°F):** No information available
- **Decomposition temperature (°C/°F):** No information available
- **Vapor density:** No information available
- **Odor:** Odorless.
- **Specific gravity:** 1.0630 @ 102 °C
- **Taste:** No information available
- **Molecular/Formula weight:** 180.20
- **Color:** White.
- **Density (g/cm3):** No information available
- **Melting point (°F):** No information available
- **Boiling point (°F):** No information available
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- **Density (g/cm3):** No information available
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- **Boiling point (°F):** No information available
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- **Decomposition temperature (°C/°F):** No information available
- **Vapor density:** No information available
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- **Density (g/cm3):** No information available
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- **Boiling point (°F):** No information available
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- **Decomposition temperature (°C/°F):** No information available
- **Vapor density:** No information available
- **Odor:** Odorless.
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- **Taste:** No information available
- **Molecular/Formula weight:** 180.20
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- **Density (g/cm3):** No information available
- **Melting point (°F):** No information available
- **Boiling point (°F):** No information available
- **Autoignition Temperature (°C/°F):** No information available
- **Decomposition temperature (°C/°F):** No information available
- **Vapor density:** No information available
- **Odor:** Odorless.
- **Specific gravity:** 1.0630 @ 102 °C
- **Taste:** No information available
- **Molecular/Formula weight:** 180.20
- **Color:** White.
- **Density (g/cm3):** No information available
- **Melting point (°F):** No information available
- **Boiling point (°F):** No information available
- **Autoignition Temperature (°C/°F):** No information available
- **Decomposition temperature (°C/°F):** No information available
- **Vapor density:** No information available

### 10. STABILITY AND REACTIVITY

- **Stability:** Stable at normal conditions
- **Conditions to avoid:** Heat. Avoid dust formation. Incompatible materials.
- **Incompatible Materials:** Strong oxidizing agents. Bases.
- **Hazardous decomposition products:** Carbon monoxide. Carbon dioxide.
- **Possibility of Hazardous Reactions:** No information available
- **Polymerization:** Hazardous polymerisation does not occur

**Product code:** PR133

**Product name:** PROPYLPARABEN, NF, EP, BP, JP
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

### 11. TOXICOLOGICAL INFORMATION

#### Acute Toxicity

**Component Information**

*Propylparaben - 94-13-3*

- **LD50/oral/rat** = No information available
- **LD50/oral/mouse** = 6332 mg/kg
- **LD50/dermal/rat** = No information available
- **LD50/dermal/rabbit** = No information available
- **LC50/inhalation/rat** = No information available
- **LC50/inhalation/mouse** = No information available
- **Other LD50 or LC50 information** = No information available

**Product Information**

- **LC50/inhalation/rat** = No information available
- **LC50/inhalation/mouse** = No information available
- **LD50/dermal/rabbit** = No information available
- **LD50/dermal/rat** = No information available
- **LD50/oral/mouse** = 6332 mg/kg
- **LD50/oral/rat** = No information available

**Local Effects**

- **Skin irritation:** May cause skin irritation. May cause allergic skin reaction.
- **Eye irritation:** May cause eye irritation.
- **Inhalation:** May cause irritation of respiratory tract.
- **Ingestion:** May cause digestive (gastrointestinal) tract irritation. It may affect behavior/central nervous system/nervous system (CNS depression, ataxia, paralysis).
- **Sensitization:** May cause sensitization by skin contact

**Chronic Toxicity**

**Skin:** Prolonged or repeated skin contact may cause allergic contact dermatitis (allergic skin reaction).

**Ingestion:** Prolonged or repeated ingestion may cause weight loss, and may affect the kidneys, and endocrine system (adrenal gland, thyroid (thyroid hypofunction).

**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>
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</thead>
<tbody>
<tr>
<td>Propylparaben</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

**Mutagenic Effects:** May affect genetic material

**Reproductive Effects:** No information available.

Product code: PR133

Product name: **PROPYLPARABEN**, NF, EP, BP, JP
Teratogenic Effects: No information available
Target Organs: No information available

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: No information available

Ecotoxicity effects: No data available.
Aquatic toxicity: No information available
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>
</tr>
</thead>
<tbody>
<tr>
<td>Propylparaben</td>
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<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
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: No information available
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available

Product code: PR133  
Product name: PROPYLPARABEN, NF, EP, BP, JP
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG
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
IMDG Page: No information available
Marine Pollutant: No information available
MFAG: No information available
Maximum Quantity: No information available

RID
UN-No: No information available
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available

ICAO
UN-No: No information available
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

IATA
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

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>
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<tr>
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<td>Present KE-20396</td>
<td>Present (3)-1585</td>
<td>Present</td>
<td>Present</td>
<td>Present 202-307-7</td>
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</table>

U.S. Regulations

Propylparaben
FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1670


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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CERCLA/SARA

<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>
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<td>Propylparaben</td>
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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>
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<tbody>
<tr>
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<td>Not Applicable</td>
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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.

Inventory

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<th>Components</th>
<th>Canada (DSL)</th>
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<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
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EU Classification

R-phrase(s)
not determined
none

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<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<tbody>
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</table>

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

16. OTHER INFORMATION

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

Preparation Date: 29-Jul-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.

Product code: PR133  Product name: PROPYPARABEN, NF, EP, BP, JP
SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier
Product code: PR133
Product Name: PROPYLPARABEN, NF, EP, BP, JP

Other means of identification
Synonyms:
- Aseptoform P; Betacide P; Bonomold P; Nipasol; Parben; Parasept; Paseptol; Preserval P; Propyl aseptoform; Propyl chemosept; Propyl parasept; Protaben P; Tegosept P;
- Propyl-p-hydroxybenzoate;
- n-Propyl-p-hydroxybenzoate;
- Benzoic acid, 4-hydroxy-, propyl ester;
- p-Hydroxybenzoic acid propyl ester;
- p-Hydroxypropyl benzoate
- Benzoic Acid, p-hydroxy-, propyl ester
CAS #: 94-13-3
RTECS #: DH2800000
CI#: Not available

Recommended use of the chemical and restrictions on use
Recommended use: Antibacterial. Preservative.
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)

| Skin sensitization | Category 1B |

Label elements
Warning

Hazard statements
May cause an allergic skin reaction

Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Not available

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

Precautionary Statements - Response
Specific treatment (see .? on this label)
IF ON SKIN: Wash with plenty of soap and 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>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylparaben</td>
<td>94-13-3</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

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 irritation develops. Consult a physician if necessary.

Eye Contact:
Flush eye 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.

Product code: PR133
Product name: PROPYLPARABEN, NF, EP, BP, JP
Most important symptoms and effects, both acute and delayed

Symptoms: May cause eye/skin irritation. May cause allergic skin reaction.

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. Avoid dust formation. Remove all sources of ignition.

Environmental precautions: Prevent further leakage or spillage. Prevent entry into waterways, sewers.

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. Avoid dust formation. Keep away from incompatible materials.
Safe Handling Advice:
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe vapours/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:
Strong oxidizing agents. Bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

U.S Occupational Exposure Limits: Not determined

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>Propylparaben - 94-13-3</td>
<td>None</td>
<td>None</td>
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<td>None</td>
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</tbody>
</table>

Canada

Canada Occupational Exposure Limits: Not determined

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
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</thead>
<tbody>
<tr>
<td>Propylparaben - 94-13-3</td>
<td>None</td>
<td>None</td>
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</tbody>
</table>

Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

<table>
<thead>
<tr>
<th>Components</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylparaben 94-13-3</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: Safety glasses. Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Effective dust mask. 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

<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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<tbody>
<tr>
<td>Odorless.</td>
<td>No information available</td>
<td>10.12-H12-O3</td>
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</table>

<table>
<thead>
<tr>
<th>Molecular/Formula weight:</th>
<th>Flash point (°C):</th>
<th>Flashpoint (°C/°F):</th>
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<tbody>
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<td>180.20</td>
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<table>
<thead>
<tr>
<th>Flash Point Tested according to:</th>
<th>Lower Explosion Limit (%):</th>
<th>Upper Explosion Limit (%):</th>
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</thead>
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<table>
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<tr>
<th>Autoignition Temperature (°C/°F):</th>
<th>pH:</th>
<th>Specific gravity:</th>
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<tbody>
<tr>
<td>No information available</td>
<td>No information available</td>
<td>1.0630 @ 102 °C</td>
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<table>
<thead>
<tr>
<th>Boiling point/range(°C/°F):</th>
<th>Decomposition temperature(°C/°F):</th>
<th>Melting point/range(°C/°F):</th>
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<tbody>
<tr>
<td>No information available</td>
<td>No information available</td>
<td>96-97 °C/204.8-206.6 °F</td>
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</table>

<table>
<thead>
<tr>
<th>Density (g/cm3):</th>
<th>Bulk density:</th>
<th>Vapor density:</th>
<th>VOC content (g/L):</th>
<th>Viscosity:</th>
</tr>
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<tbody>
<tr>
<td>No information available</td>
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<td>No information available</td>
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</table>

<table>
<thead>
<tr>
<th>Evaporation rate:</th>
<th>Vapor pressure @ 20°C (kPa):</th>
<th>Odor:</th>
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<tbody>
<tr>
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<td>No information available</td>
<td>Odorless.</td>
</tr>
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<table>
<thead>
<tr>
<th>Odor threshold (ppm):</th>
<th>Partition coefficient (n-octanol/water):</th>
<th>Miscibility:</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>3.04</td>
<td>No information available</td>
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<table>
<thead>
<tr>
<th>Miscibility:</th>
<th>Solubility:</th>
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<tbody>
<tr>
<td>No information available</td>
<td>Very slightly soluble in water</td>
</tr>
<tr>
<td></td>
<td>Soluble in Acetone</td>
</tr>
<tr>
<td></td>
<td>Soluble in Ether</td>
</tr>
<tr>
<td></td>
<td>Freely soluble in alcohol</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Reactive with oxidizing agents
Reacts with bases

Chemical stability
Stability: Stable at normal conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur


Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

Other Information
Corrosivity: No information available

Product code: PR133
Product name: PROPYLPARABEN, NF, EP, BP, JP
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Ingestion. Inhalation. Skin.

Acute Toxicity

Component Information

Propylparaben - 94-13-3
LD50/oral/rat = No information available
LD50/oral/mouse = 6332 mg/kg Oral LD50 Mouse
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat = VALUE- Acute Tox Oral = No information available
LD50/oral/mouse = Value - Acute Tox Oral = 6332mg/kg
LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available
LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available
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. May cause sensitization by skin contact. May cause allergic skin reaction.

Eye Contact: May cause eye irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion May cause digestive (gastrointestinal) tract irritation. It may affect behavior/central nervous system/nervous system(CNS depression, ataxia, paralysis).

Product code: PR133
Product name: PROPYLPARABEN, NF, EP, BP, JP
Aspiration hazard: No information available

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

**Chronic Toxicity**
- Skin: Prolonged or repeated skin contact may cause allergic contact dermatitis (allergic skin reaction).
- Ingestion: Prolonged or repeated ingestion may cause weight loss, and may affect the kidneys, and endocrine system (adrenal gland, thyroid (thyroid hypofunction))

**Sensitization:**
- May cause sensitization by skin contact

**Mutagenic Effects:**
- May affect genetic material

**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>
<tbody>
<tr>
<td>Propylparaben</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>

**Reproductive toxicity**
- No data is available

<table>
<thead>
<tr>
<th>Reproductive Effects:</th>
<th>No information available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Developmental Effects:</th>
<th>No information available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Teratogenic Effects:</th>
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</tr>
</thead>
</table>

**Specific Target Organ Toxicity**

<table>
<thead>
<tr>
<th>STOT - single exposure</th>
<th>No information available</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT - repeated exposure</td>
<td>No information available</td>
</tr>
<tr>
<td>Target Organs:</td>
<td>No information available</td>
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</table>

12. ECOLOGICAL INFORMATION

**Ecotoxicity**

- Ecotoxicity effects: No data available.

<table>
<thead>
<tr>
<th>Persistence and degradability:</th>
<th>No information available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Bioaccumulative potential:</th>
<th>No information available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Mobility:</th>
<th>No information available</th>
</tr>
</thead>
</table>

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>Propylparaben</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
- Packing Group: No information available
- Description: No information available

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
- Classification Code: No information available
- Description: No information available
- CEFIC Tremcard No: 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
- Description: No information available
- IMDG Page: No information available
- Marine Pollutant: No information available
- MFAG: No information available
- Maximum Quantity: 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
- Classification Code: No information available

Product code: PR133
Product name: PROPYLPARABEN, NF, EP, BP, JP
14. TRANSPORT INFORMATION

Description: 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
Description: 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
Description: No information available

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 (3)-1585</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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</thead>
<tbody>
<tr>
<td>Propylparaben</td>
<td>Present</td>
<td>Present KE-20396</td>
<td>Present</td>
<td>Present</td>
<td>Present</td>
<td>Present</td>
<td>Present 202-307-7</td>
</tr>
</tbody>
</table>

U.S. Regulations

Propylparaben

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1670


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>
<td>Propylparaben</td>
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<td>Not Listed</td>
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</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPOs</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>Propylparaben</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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</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>Propylparaben</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
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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.

Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
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<tbody>
<tr>
<td>Propylparaben</td>
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<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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<tbody>
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<td>Propylparaben</td>
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EU Classification

R-phrase(s)
not determined
none

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

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

Indication of danger:
Not dangerous

16. OTHER INFORMATION
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
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<tbody>
<tr>
<td>1</td>
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</table>

Preparation Date: 7/29/2014
Revision Date: 7/29/2014
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
www.qualityexcipients.com
info@qualityexcipients.com

Product code: PR133
Product name: PROPYLPARABEN, NF, EP, BP, JP