

## SAFETY DATA SHEET

Preparation Date: 6/13/2017

Revision Date: 6/13/2017

Revision Number: G1

### 1. IDENTIFICATION

#### Product identifier

**Product code:** N1099  
**Product Name:** P-NITROPHENOL, REAGENT

#### Other means of identification

**Synonyms:** 4-Hydroxynitrobenzene  
 4-Nitrofenol (Dutch)  
 4-Nitrophenol  
 Paranitrofenol (Dutch)  
 Paranitrofenolo (Italian)  
 Paranitrophenol (French,German)

**CAS #:** 100-02-7  
**RTECS #** SM2275000  
**CI#:** Not available

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

**Recommended use:** Chemical intermediate.  
**Uses advised against** No information available

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

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

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

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

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

### 2. HAZARDS IDENTIFICATION

#### Classification

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

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

|  |             |
|--|-------------|
| Acute toxicity - Oral                              | Category 3  |
| Acute toxicity - Dermal                            | Category 4  |
| Acute toxicity - Inhalation (Gases)                | Category 4  |
| Acute toxicity - Inhalation (Vapors)               | Category 4  |
| Acute toxicity - Inhalation (Dusts/Mists)          | Category 4  |
| Skin corrosion/irritation                          | Category 2  |
| Serious eye damage/eye irritation                  | Category 2B |
| Specific target organ toxicity (repeated exposure) | Category 2  |

#### Label elements

**Product code:** N1099

**Product name:** P-NITROPHENOL,  
 REAGENT

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## Danger

### Hazard statements

Toxic if swallowed  
Harmful if inhaled  
Harmful in contact with skin  
Causes skin irritation  
Causes eye irritation  
May cause damage to organs through prolonged or repeated exposure



### Hazards not otherwise classified (HNOC)

Not Applicable

### Other hazards

Decomposes violently on heating  
Will burn in absence of air

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Use only outdoors or in a well-ventilated area  
Do not breathe dust/fume/gas/mist/vapors/spray  
Wear protective clothing  
Wear protective gloves

### **Precautionary Statements - Response**

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

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components    | CAS-No.  | Weight % |
|---------------|----------|----------|
| p-Nitrophenol | 100-02-7 | 100      |

#### 4. FIRST AID MEASURES

##### First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.
- Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention.
- Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.
- Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.
- Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

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

- Symptoms** Causes skin irritation. Causes eye irritation. May cause methemoglobinemia and cyanosis. Central nervous system effects. Headache. Dizziness. Fatigue. May cause bronchitis. Dyspnea (Shortness of breath and difficulty breathing). Coughing. Sore throat. Burning sensation of the respiratory tract. Burning sensation in the mouth and stomach. It may affect the kidneys. Weak, rapid pulse or rapid heart rate (Tachycardia).

##### 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 (CO<sub>2</sub>). Water spray mist or foam.
- Unsuitable Extinguishing Media:** No information available.

##### Specific hazards arising from the chemical

- Hazardous Combustion Products:** Carbon Dioxide, Carbon Monoxide. Nitrogen Oxides.
- Specific hazards:** May be combustible at high temperatures. Will burn in

absence of air. Decomposes violently on heating.

### **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:**

Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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, 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. Remove all sources of ignition. Keep away from incompatible materials.

**Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not ingest. 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. Keep in a well-ventilated place. Store at room temperature in the original container. Store in a segregated and approved area. Store away from incompatible materials.

**Incompatible Materials:**

Oxidizing agents  
Strong bases

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

### **National occupational exposure limits**

## United States

| Components    | CAS-No.  | OSHA | NIOSH | ACGIH | AIHA WHEEL |
|---------------|----------|------|-------|-------|------------|
| p-Nitrophenol | 100-02-7 | None | None  | None  | None       |

## Canada

| Components    | CAS-No.  | Canada - Alberta | Canada - British Columbia | Canada - Ontario | Canada - Quebec |
|---------------|----------|------------------|---------------------------|------------------|-----------------|
| p-Nitrophenol | 100-02-7 | None             | None                      | None             | None            |

## Australia and Mexico

| Components    | CAS-No.  | Australia | Mexico |
|---------------|----------|-----------|--------|
| p-Nitrophenol | 100-02-7 | None      | None   |

### 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 with side-shields or Goggles
- Skin and body protection:** Long sleeved clothing  
Chemical resistant apron  
Gloves
- Respiratory protection:** Effective dust mask. 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

|  |  |  |
|--|--|--|
| <b>Physical state:</b><br>Solid                          | <b>Appearance:</b><br>Crystals.                                      | <b>Color:</b><br>Light yellow. Yellowish.                        |
| <b>Odor:</b><br>Odorless.                                | <b>Taste</b><br>Sweetish. Burning.                                   | <b>Formula:</b><br>C <sub>6</sub> H <sub>5</sub> NO <sub>3</sub> |
| <b>Molecular/Formula weight:</b><br>139.11               | <b>Flammability:</b><br>No information available                     | <b>Flashpoint (°C/°F):</b><br>No information available.          |
| <b>Flash Point Tested according to:</b><br>Not available | <b>Autoignition Temperature (°C/°F):</b><br>No information available | <b>Lower Explosion Limit (%):</b><br>No information available    |

|   |   |   |
|---|---|---|
| <b>Upper Explosion Limit (%):</b><br>No information available | <b>Melting point/range(°C/°F):</b><br>113-114 °C/235.4-237.2 °F   | <b>Decomposition temperature(°C/°F):</b><br>279 °C/534.2 °F<br>Decomposes violently |
| <b>Boiling point/range(°C/°F):</b><br>279 °C/534.2 °F         | <b>Bulk density:</b><br>No information available  | <b>Density (g/cm3):</b><br>No information available                                 |
| <b>Specific gravity:</b><br>1.479                             | <b>pH:</b><br>No information available  | <b>Vapor pressure @ 20°C (kPa):</b><br>No information available                     |
| <b>Evaporation rate:</b><br>No information available          | <b>Vapor density:</b><br>No information available   | <b>VOC content (g/L):</b><br>No information available                               |
| <b>Odor threshold (ppm):</b><br>No information available      | <b>Partition coefficient (n-octanol/water):</b><br>log Kow = 1.91   | <b>Viscosity:</b><br>No information available                                       |
| <b>Miscibility:</b><br>No information available               | <b>Solubility:</b><br>Freely soluble in alcohol<br>Very soluble in Ethanol<br>Very soluble in Ether<br>Very soluble in Acetone<br>Solubility in Water: 15600 mg/l @ 25 deg. C; 32.8 g/l @ 40 deg. C |   |

## 10. STABILITY AND REACTIVITY

### Reactivity

Solid mixtures of 4-nitrophenol with potassium hydroxide readily deflagrate  
Mixtures with diethyl phosphite may explode when heated

### Chemical stability

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

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

**Conditions to avoid:** Heat. Incompatible materials.

**Incompatible Materials:** Oxidizing agents  
Strong bases

**Hazardous decomposition products:** When heated to decomposition it emits toxic fumes. Nitrogen oxides (NOx).  
Carbon monoxide.

### 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. Skin.

### Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document  
**Component Information**

|               |          |
|---------------|----------|
| p-Nitrophenol |          |
| CAS-No.       | 100-02-7 |

**LD50/oral/rat** = 230 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = 282 mg/kg  
**LD50/dermal/rabbit** = > 5000 mg/kg Dermal LD50 Rabbit(LOLI)  
**LD50/dermal/rat** = 1024 mg/kg (European Chemicals Bureau IUCLID dataset)  
**LC50/inhalation/rat** = >4.7 mg/L Inhalation LC50 Rat 4 h  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50 information** = No information available

### Product Information

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = 230 mg/kg

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = 282 mg/kg

**LD50/dermal/rabbit**  
**VALUE-Acute Tox Dermal** = > 5000 mg/kg

**LD50/dermal/rat**  
**VALUE -Acute Tox Dermal** = 1024 mg/kg

**LC50/inhalation/rat**  
**VALUE-Vapor** = No information available  
**VALUE-Gas** = No information available  
**VALUE-Dust/Mist** = >4.7 mg/l (4-hr.)

**LC50/Inhalation/mouse**  
**VALUE-Vapor** = No information available  
**VALUE - Gas** = No information available  
**VALUE - Dust/Mist** = No information available

### Symptoms

**Skin Contact:** Causes skin irritation.

**Eye Contact:** Causes eye irritation. Mild to moderate eye irritation.

**Inhalation** May cause irritation of respiratory tract. Symptoms may include burning sensation, coughing and sore throat. Can cause dyspnea (shortness of breath and difficulty breathing). It may affect behavior/central nervous system (convulsions/seizures). May affect behavior/central nervous system (confusion). May cause muscle weakness. May cause nausea. May cause methemoglobinemia (the formation of methemoglobin in the blood which causes deficient oxygenation of the blood due to decreased available hemoglobin). Methemoglobinemia can lead to cyanosis (bluish skin and lips due to deficient oxygenation of the blood). May cause fatigue. May cause dizziness and headache.

**Ingestion** Causes digestive (gastrointestinal) tract irritation. May cause nausea. May cause abdominal pain. Symptoms may include a burning sensation in the mouth, throat, and stomach. May affect behavior/central nervous system (convulsions). May affect behavior/central nervous system (somnolence, ataxia, tremor, headache,

muscle weakness). May affect respiration (dyspnea - difficulty breathing and shortness of breath). May affect urinary system (kidneys). May cause respiratory paralysis/respiratory failure. May affect the cardiovascular system. May affect the cardiovascular system (tachycardia).

**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 kidneys. Prolonged or repeated ingestion may cause methemoglobinemia, which is characterized by chocolate-brown colored blood, headache, weakness, dizziness, shortness of breath, cyanosis (a bluish discoloration of the skin, lips, nails due to deficient oxygenation of the blood), rapid heart rate, unconsciousness. Prolonged or repeated inhalation may also cause methemoglobinemia and cyanosis. Prolonged or repeated inhalation may cause bronchitis with coughing, phlegm, and/or shortness of breath. Chronic exposure may cause central nervous system effects.

**Sensitization:** No information available.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic.

| Components    | CAS-No.  | IARC       | ACGIH - Carcinogens | NTP        | OSHA HCS - Carcinogens | Australia - Notifiable Carcinogenic Substances | Australia - Prohibited Carcinogenic Substances |
|---------------|----------|------------|---------------------|------------|------------------------|--|--|
| p-Nitrophenol | 100-02-7 | Not listed | Not listed          | Not listed | Not listed             | Not listed                                     | Not listed                                     |

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

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

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available

**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

*p-Nitrophenol - 100-02-7*

**Freshwater Algae Data:** 23.7 mg/L EC50 *Desmodesmus subspicatus* 96 h 1.95 - 14.6 mg/L EC50 *Pseudokirchneriella subcapitata* 72 h 2.3 - 7.71 mg/L EC50 *Pseudokirchneriella*

**Freshwater Fish Species Data:** subcapitata 96 h  
 30.4 mg/L LC50 Pimephales promelas 96 h flow-through 1 6.6 mg/L LC50  
 Lepomis macrochirus 96 h static 1 10.4 mg/L LC50 Brachydanio rerio 96 h static 1  
 14 mg/L LC50 Poecilia reticulata 96 h static 1 7.9 mg/L LC50 Oncorhynchus  
 mykiss 96 h flow-through 1 3.8 mg/L LC50 Oncorhynchus mykiss 96 h static 1

**Water Flea Data:** 3.1 - 7.1 mg/L EC50 Daphnia magna 48 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

| Components    | CAS-No.  | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|---------------|----------|------------------------|------------------------|------------------------|------------------------|
| p-Nitrophenol | 100-02-7 | None                   | None                   | None                   | U170                   |

### 14. TRANSPORT INFORMATION

#### DOT

**UN-No:** UN1663  
**Proper Shipping Name:** Nitrophenols  
**Hazard Class:** 6.1  
**Subsidiary Class:** No information available  
**Packing group:** III  
**Emergency Response Guide Number:** 153  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions:** IB8, IP3, T1, TP33  
**Symbol(s):** No information available  
**Description:** UN1663, Nitrophenols, 6.1, III

#### TDG (Canada)

**UN-No:** UN1663  
**Proper Shipping Name:** Nitrophenols  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant:** No Information available  
**Description:** UN1663, Nitrophenols, 6.1, III

#### ADR

**UN-No:** UN1663  
**Proper Shipping Name:** Nitrophenols (o-, m-, p-)  
**Hazard Class:** 6.1  
**Packing Group:** III

**Subsidiary Risk:** No information available  
**Special Provisions** 279  
**Description:** UN1663, Nitrophenols (o-, m-, p-), 6.1, III

**IMO / IMDG**

**UN-No:** UN1663  
**Proper Shipping Name:** Nitrophenols  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** No information available  
**EMS:** F-A  
**Special Provisions** 279  
**Description** UN1663, Nitrophenols, 6.1, III

**RID**

**UN-No:** UN1663  
**Proper Shipping Name:** Nitrophenols  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Special Provisions** 279  
**Description:** UN1663, Nitrophenols, 6.1, III

**ICAO**

**UN-No:** UN1663  
**Proper Shipping Name:** Nitrophenols  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** UN1663, Nitrophenols, 6.1, III  
**Special Provisions** A113

**IATA**

**UN-No:** UN1663  
**Proper Shipping Name:** Nitrophenols  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**ERG Code:** 6L  
**Special Provisions** No information available  
**Description:** UN1663, Nitrophenols, 6.1, III

**15. REGULATORY INFORMATION**

**International Inventories**

| Components            | CAS-No.  | U.S. TSCA | KOREA KECL          | Philippines (PICCS) | Japan ENCS         | CHINA   | Australia (AICS) | EINECS-No.           |
|-----------------------|----------|-----------|---------------------|---------------------|--------------------|---------|------------------|----------------------|
| <i>p</i> -Nitrophenol | 100-02-7 | Present   | Present<br>KE-26012 | Present             | Present<br>(3)-777 | Present | Present          | Present<br>202-811-7 |

**U.S. Regulations**

*p*-Nitrophenol

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 1390  
**New Jersey (EHS) List:** 1390 500 lb TPQ

**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present  
**Pennsylvania RTK:** Environmental hazard  
**Pennsylvania RTK - Environmental Hazard List** Present  
**New York Release Reporting - List of Hazardous Substances:**  
 100 lb RQ  
 1 lb RQ  
**Louisiana Reportable Quantity List for Pollutants:** Listed  
**California Directors List of Hazardous Substances:** Present

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

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

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

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

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

| Components    | CAS-No.  | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|---------------|----------|------------|------------------------|----------------------------|-------------------------------|
| p-Nitrophenol | 100-02-7 | Not Listed | Not Listed             | Not Listed                 | Not Listed                    |

**CERCLA/SARA**

| Components    | CAS-No.  | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting de minimis |
|---------------|----------|---|---|--|---------------------------------|------------------------------------|
| p-Nitrophenol | 100-02-7 | 100 lb final RQ<br>45.4 kg final RQ                           | None  | None   | None                            | 1.0 % de minimis concentration     |

**U.S. TSCA**

| Components    | CAS-No.  | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|---------------|----------|---|--|
| p-Nitrophenol | 100-02-7 | Not Applicable  | 04/13/1989 06/30/1998                  |

**Canada**

**WHMIS 2015 - GHS Classifications**

WHMIS 2015 Hazard Classification Information: The WHMIS 2015 classification of this product has not been validated or reviewed yet.

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

**WHMIS 1988 Hazard Class**

D1B Toxic materials

**Canada Controlled Products Regulation:**

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

| Components    | WHMIS Ingredient Disclosure List - |
|---------------|------------------------------------|
| p-Nitrophenol | 1 %                                |

**Inventory**

| Components | CAS-No. | Canada (DSL) | Canada (NDSL) |
|------------|---------|--------------|---------------|
|            |         |              |               |

|               |          |         |            |
|---------------|----------|---------|------------|
| p-Nitrophenol | 100-02-7 | Present | Not Listed |
|---------------|----------|---------|------------|

|                   |          |   |
|-------------------|----------|---|
| <b>Components</b> | CAS-No.  | CEPA Schedule I - Toxic Substances                          |
| p-Nitrophenol     | 100-02-7 | Not listed  |
| <b>Components</b> | CAS-No.  | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
| p-Nitrophenol     | 100-02-7 | Not listed  |

## EU Classification

### EU GHS - SV - CLP 172/2008

|                   |          |  |
|-------------------|----------|--|
| <b>Components</b> | CAS-No.  | EU GHS - SV - CLP (172/2008)   |
| p-Nitrophenol     | 100-02-7 | Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Acute toxicity - Dermal - Acute Tox. 4: H312 Harmful in contact with skin. (Minimum classification); Acute toxicity - Inhalation - Acute Tox. 4: H332 Harmful if inhaled. (Minimum classification); Specific target organ toxicity - Repeated exposure - STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Minimum classification; No information to prove exclusion of certain routes of exposure)609-015-00-2 |

### EU - CLP (1272/2008)

#### R-phrase(s)

R33 - Danger of cumulative effects.

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

#### S -phrase(s)

S 2 - Keep out of the reach of children.

S28 - After contact with skin, wash immediately with plenty of water

| Components    | CAS-No.  | Classification       | Concentration Limits: | Safety Phrases |
|---------------|----------|----------------------|-----------------------|----------------|
| p-Nitrophenol | 100-02-7 | Xn; R20/21/22<br>R33 | No information        | S2 S28         |

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

#### Indication of danger:

None.

## 16. OTHER INFORMATION

**Preparation Date:** 6/13/2017  
**Revision Date:** 6/13/2017  
**Prepared by:** Sonia Owen

#### Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this

SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**