SAFETY DATA SHEET

Preparation Date: No data available

Revision Date: 07/01/2015

Revision Number: G1

Product identifier

Product code: P1072
Product Name: O-PHENYLENEDIAMINE, REAGENT

Other means of identification

Synonyms: 1,2-Benzenediamine; 1,2-Phenylenediamine; 2-Aminoaniline; o-Benzenediamine; o-Diaminobenzene
CAS #: 95-54-5
RTECS #: SS7875000
CI#: 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
Chemetrec 1-800-424-9300

Contact Person:
Martin LaBenz (West Coast)
Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Gases)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Vapors)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

Label elements
Hazard statements
Harmful if swallowed
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of causing genetic defects
Suspected of causing cancer

Other hazards
Very toxic to aquatic life with long lasting effects
Very toxic to aquatic life

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
Specific treatment (see .? on this label)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-Phenylenediamine</td>
<td>95-54-5</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

Product code: P1072
Product name: O-PHENYLENEDIAMINE, REAGENT
4. FIRST AID MEASURES

First aid measures

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

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

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

Most important symptoms and effects, both acute and delayed

Symptoms Causes serious eye irritation. Eye contact may result in redness or pain. Causes skin irritation. Skin contact may result in redness, pain, inflammation, itching, scaling. May cause allergic skin reaction. Harmful if swallowed or if inhaled. Suspected of causing cancer. Suspected of causing genetic defects.

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 oxides, Nitrogen oxides

Specific hazards: May be combustible at high temperatures When heated to decomposition it emits toxic fumes

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

Product code: P1072  Product name: O-PHENYLENEDIAMINE, REAGENT
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. Keep away from incompatible materials.

Safe Handling Advice: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. 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. Air sensitive.

Incompatible Materials: No information available

8. EXPOSURE CONTROLS/PERSOAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-Phenylenediamine</td>
<td>None</td>
<td>None</td>
<td>0.1 mg/m³ TWA</td>
<td>None</td>
</tr>
<tr>
<td>95-54-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-Phenylenediamine</td>
<td>0.1 mg/m³ TWA</td>
<td>0.1 mg/m³ TWA</td>
<td>0.1 mg/m³ TWA</td>
<td>0.1 mg/m³ TWA EV</td>
</tr>
<tr>
<td>95-54-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Australia and Mexico

<table>
<thead>
<tr>
<th>Components</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-Phenylenediamine</td>
<td>suspected carcinogen</td>
<td>None</td>
</tr>
<tr>
<td>95-54-5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Product code: P1072  Product name: O-PHENYLENEDIAMINE, REAGENT
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:** Chemical resistant apron. Gloves. Long sleeved clothing.
- **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>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical state:</strong></td>
<td>Solid.</td>
</tr>
<tr>
<td><strong>Odor:</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Formula:</strong></td>
<td>C6H8N2</td>
</tr>
<tr>
<td><strong>Flashpoint (°C/°F):</strong></td>
<td>156°C/312.8°F</td>
</tr>
<tr>
<td><strong>Upper Explosion Limit (%):</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Melting point/range(°C/°F):</strong></td>
<td>103°-104°C/217.4°-219.2°F</td>
</tr>
<tr>
<td><strong>Bulk density:</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Density (g/cm³):</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>VOC content (g/L):</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Appearance:</strong></td>
<td>Crystals.</td>
</tr>
<tr>
<td><strong>Taste:</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Flammability:</strong></td>
<td>May be combustible at high temperatures</td>
</tr>
<tr>
<td><strong>Flash Point Tested according to:</strong></td>
<td>Closed cup</td>
</tr>
<tr>
<td><strong>Autoignition Temperature (°C/°F):</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Boiling point/range(°C/°F):</strong></td>
<td>256°-258°C/492.8°-496.4°F</td>
</tr>
<tr>
<td><strong>Specific gravity:</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Evaporation rate:</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Odor threshold (ppm):</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Miscibility:</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Molecular/Formula weight:</strong></td>
<td>108.14</td>
</tr>
<tr>
<td><strong>Flash point (°C):</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Lower Explosion Limit (%):</strong></td>
<td>1.5</td>
</tr>
<tr>
<td><strong>pH:</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Decomposition temperature(°C/°F):</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Vapor pressure @ 20°C (kPa):</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Vapor density:</strong></td>
<td>3.7</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water):</strong></td>
<td>0.2</td>
</tr>
<tr>
<td><strong>Solubility:</strong></td>
<td>Freely soluble in alcohol</td>
</tr>
<tr>
<td></td>
<td>Freely soluble in Chloroform</td>
</tr>
<tr>
<td></td>
<td>Partially soluble in hot water</td>
</tr>
<tr>
<td></td>
<td>Soluble in Benzene</td>
</tr>
<tr>
<td></td>
<td>Soluble in diethyl ether</td>
</tr>
</tbody>
</table>

**Product code:** P1072  
**Product name:** O-PHENYLENEDIAMINE, REAGENT
10. STABILITY AND REACTIVITY

Reactivity
Air sensitive

Chemical stability
Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Exposure to air.

Incompatible Materials: No information available

Hazardous decomposition products: Carbon oxides. Nitrogen oxides (NOx).

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: None.

Acute Toxicity

Component Information

o-Phenylenediamine - 95-54-5

LD50/oral/rat = 510 mg/kg Oral LD50 Rat
LD50/oral/mouse = 366 mg/kg Oral LD50 Mouse
LD50/dermal/rat = >5 g/kg Dermal LD50 Rat
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = 1873 mg/m³ Inhalation LC50 Rat
LC50/inhalation/mouse = > 91 mg/m³ Inhalation LC50 Mouse
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 510mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = 366mg/kg

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

LD50/dermal/rat
VALUE -Acute Tox Dermal = > 5g/kg
LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = 1873mg/m³

LC50/inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = > 91 mg/m³

Symptoms

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Inhalation Harmful by inhalation.

Ingestion Harmful if swallowed.

Aspiration hazard No information available

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

Chronic Toxicity No information available

Sensitization: May cause sensitization by skin contact

Mutagenic Effects: May affect genetic material

Experiments with bacteria and/or yeast have shown mutagenic effects

Carcinogenic effects: Suspected of causing cancer.

<table>
<thead>
<tr>
<th>Components</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</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>O-Phenylenediamine</td>
<td>Not listed</td>
<td>A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans</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

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 No information available

Target Organs: No information available

12. ECOLOGICAL INFORMATION

Product code: P1072
Product name: O- PHENYLENEDIAMINE, REAGENT
12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

O-Phenylendiamine - 95-54-5

Freshwater Algae Data: 0.16 mg/L EC50 Pseudokirchneriella subcapitata 96 h
4 mg/L EC50 Desmodesmus subspicatus 72 h

Freshwater Fish Species Data: 24 mg/L LC50 Brachydanio rerio 96 h static 1
44 mg/L LC50 Pimephales promelas 96 h static 1

Water Flea Data: 0.87 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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>O-Phenylendiamine</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: UN1673
Proper Shipping Name: Phenylendiamines
Hazard Class: 6.1
Subsidiary Risk: 
Packing Group: III
ERG No: 153
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Symbol(s): [+]

TDG (Canada)

UN-No: UN1673
Proper Shipping Name: Phenylendiamines
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

Product code: P1072
Product name: O-PHENYLENEDIAMINE, REAGENT
14. TRANSPORT INFORMATION

**ADR**
- **UN-No:** UN1673
- **Proper Shipping Name:** Phenylendiamines (o-, m-, p-)
- **Hazard Class:** 6.1
- **Packing Group:** III
- **Subsidiary Risk:** No information available
- **Classification Code:** No information available
- **Description:** No information available
- **CEFIC Tremcard No:** No information available

**IMO / IMDG**
- **UN-No:** UN1673
- **Proper Shipping Name:** Phenylendiamines
- **Hazard Class:** 6.1
- **Subsidiary Risk:** No information available
- **Packing Group:** III
- **Description:** No information available
- **IMDG Page:** No information available
- **Marine Pollutant:** No information available
- **EMS:** F-A
- **MFAG:** No information available
- **Maximum Quantity:** No information available

**RID**
- **UN-No:** UN1673
- **Proper Shipping Name:** Phenylendiamines
- **Hazard Class:** 6.1
- **Subsidiary Risk:** No information available
- **Packing Group:** III
- **Classification Code:** No information available
- **Description:** No information available

**ICAO**
- **UN-No:** UN1673
- **Proper Shipping Name:** Phenylendiamines
- **Hazard Class:** 6.1
- **Subsidiary Risk:** No information available
- **Packing Group:** III
- **Description:** No information available

**IATA**
- **UN-No:** UN1673
- **Proper Shipping Name:** Phenylendiamines
- **Hazard Class:** 6.1
- **Subsidiary Risk:** No information available
- **Packing Group:** III
- **ERG Code:** 6L
- **Description:** No information available

15. REGULATORY INFORMATION

**International Inventories**

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS (3)-185</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>p-Phenylenediamine</td>
<td>Present</td>
<td>Present KE-02174</td>
<td>Present</td>
<td>Present (3)-185</td>
<td>Present</td>
<td>Present</td>
<td>Present 202-430-6</td>
</tr>
</tbody>
</table>

**Product code:** P1072
**Product name:** O- PHENYLENEDIAMINE, REAGENT
U.S. Regulations

\textit{o-Phenylenediamine}

| Massachusetts RTK: Present |
| New Jersey RTK Hazardous Substance List: 1495 |
| New Jersey (EHS) List: 1495 500 lb TPQ |
| New Jersey - Discharge Prevention - List of Hazardous Substances: Present |
| Minnesota - Hazardous Substance List: Present |


Chemicals Known to the State of California to Cause Cancer:
WARNING: This product contains a chemical known to the State of California to cause cancer. (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>o-Phenylenediamine</td>
<td>carcinogen</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</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 TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-Phenylenediamine</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>1.0 % de minimis concentration</td>
</tr>
</tbody>
</table>

U.S. TSCA

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

Canada

WHMIS hazard class:
D1B  Toxic materials
D2A  Very toxic materials

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

<table>
<thead>
<tr>
<th>Components</th>
<th>WHMIS Ingredient Disclosure List -</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-Phenylenediamine</td>
<td>0.1 %</td>
</tr>
</tbody>
</table>

Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-Phenylenediamine</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

Product code: P1072  
Product name: O-PHENYLENEDIAMINE, REAGENT
EU Classification

**R-phrase(s)**
- R25 - Toxic if swallowed.
- R36 - Irritating to eyes.
- R40 - Limited evidence of a carcinogenic effect
- R43 - May cause sensitization by skin contact.
- R20/21 - Harmful by inhalation and in contact with skin.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrase(s)**
- S28 - After contact with skin, wash immediately with plenty of water.
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S60 - This material and its container must be disposed of as hazardous waste.
- S36/37 - Wear suitable protective clothing and gloves.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-Phenylenediamine</td>
<td>Xn; R20/21; T; R25; Xi; R36; Carc.Cat.3; R40; R43; N; R50-53; Muta.Cat.3; R68</td>
<td>No information</td>
<td>S1/2 S28 S36/37 S45 S60 S61</td>
</tr>
</tbody>
</table>

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

**Indication of danger:**
None.

**16. OTHER INFORMATION**
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