Material Safety Data Sheet
N,N-Dimethyl-p-phenylenediamine oxalate, 99% (titr.)

ACC# 73368

Section 1 - Chemical Product and Company Identification

MSDS Name: N,N-Dimethyl-p-phenylenediamine oxalate, 99% (titr.)
Catalog Numbers: AC408490000, AC408490250, AC408491000
Synonyms:

Company Identification:
Acros Organics N.V.
One Reagent Lane
Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01
For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>62778-12-5</td>
<td>N,N-Dimethyl-p-phenylenediamine oxalate</td>
<td>99</td>
<td>263-723-2</td>
</tr>
</tbody>
</table>

Hazard Symbols: XI T
Risk Phrases: 25 38 43

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: gray or beige to brown powder. **Danger**! May be fatal if swallowed. Causes skin irritation. May cause eye irritation. May cause respiratory and digestive tract irritation. May cause allergic skin reaction.

**Target Organs**: Skin.

**Potential Health Effects**

**Eye**: Dust may cause mechanical irritation.

**Skin**: May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Causes slight skin irritation.

**Ingestion**: May be fatal if swallowed. The toxicological properties of this substance have not been fully investigated.

**Inhalation**: The toxicological properties of this substance have not been fully investigated.

**Chronic**: No information found.

Section 4 - First Aid Measures

**Eyes**: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin**: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion**: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an
unconscious person. Get medical aid immediately. **Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. **Notes to Physician:** Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. **Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam. **Flash Point:** Not available. **Autoignition Temperature:** Not available. **Explosion Limits, Lower:** Not available. **Upper:** Not available. **NFPA Rating:** (estimated) Health: 3; Flammability: 0; Instability: 0

### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

### Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Do not ingest or inhale. **Storage:** Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low. **Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>N,N-Dimethyl-p-phenylenediamine oxalate</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

**OSHA Vacated PELs:** N,N-Dimethyl-p-phenylenediamine oxalate: No OSHA Vacated PELs are listed for this chemical. **Personal Protective Equipment** **Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
**Skin:** Wear appropriate protective gloves to prevent skin exposure.
**Clothing:** Wear appropriate protective clothing to prevent skin exposure.
**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## Section 9 - Physical and Chemical Properties

**Physical State:** Powder  
**Appearance:** gray or beige to brown  
**Odor:** Not available.  
**pH:** Not available.  
**Vapor Pressure:** Not available.  
**Vapor Density:** Not available.  
**Evaporation Rate:** Not available.  
**Viscosity:** Not available.  
**Boiling Point:** Not available.  
**Freezing/Melting Point:** 205 deg C  
**Decomposition Temperature:** Not available.  
**Solubility:** Not available.  
**Specific Gravity/Density:** Not available.  
**Molecular Formula:** C18H26N4O4  
**Molecular Weight:** 362.42

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Incompatible materials, dust generation, strong oxidants.  
**Incompatibilities with Other Materials:** Oxidizing agents.  
**Hazardous Decomposition Products:** Carbon monoxide, oxides of nitrogen, carbon dioxide.  
**Hazardous Polymerization:** Has not been reported

## Section 11 - Toxicological Information

**RTECS#:**  
**CAS# 62778-12-5:** CZ1586550  
**LD50/LC50:**  
**CAS# 62778-12-5:**  
Oral, mouse: LD50 = 25 mg/kg;  
**Carcinogenicity:**  
**CAS# 62778-12-5:** Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.  
**Epidemiology:** No data available.  
**Teratogenicity:** No data available.  
**Reproductive Effects:** No data available.  
**Neurotoxicity:** No data available.  
**Mutagenicity:** No data available.  
**Other Studies:** No data available.

## Section 12 - Ecological Information

https://fscimage.fishersci.com/msds/73368.htm  
11/15/2004
Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>Shipping Name:</th>
<th>US DOT</th>
<th>IATA</th>
<th>RID/ADR</th>
<th>IMO</th>
<th>Canada TDG</th>
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<tbody>
<tr>
<td>TOXIC SOLIDS, ORGANIC, N.O.S.</td>
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<td></td>
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<td>TOXIC SOLID ORGANIC NOS (DIMET PHENYLENEDIAMINE OXALATE)</td>
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<td>Hazard Class:</td>
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<td>UN Number:</td>
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<td>Packing Group:</td>
<td>II</td>
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</tbody>
</table>

Section 15 - Regulatory Information

**US FEDERAL**

**TSCA**
CAS# 62778-12-5 is listed on the TSCA inventory.

**Health & Safety Reporting List**
None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules**
None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**
None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**
None of the chemicals in this material have a SNUR under TSCA.

**SARA**

**CERCLA Hazardous Substances and corresponding RQs**
None of the chemicals in this material have an RQ.

**SARA Section 302 Extremely Hazardous Substances**
None of the chemicals in this product have a TPQ.

**SARA Codes**
CAS # 62778-12-5: acute.

**Section 313**
No chemicals are reportable under Section 313.

**Clean Air Act:**
This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

**Clean Water Act:**

https://fscimage.fishersci.com/msds/73368.htm

11/15/2004
None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**
None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**
CAS# 62778-12-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations**

**European Labeling in Accordance with EC Directives**
**Hazard Symbols:**
XI T
**Risk Phrases:**
R 25 Toxic if swallowed.
R 38 Irritating to skin.
R 43 May cause sensitization by skin contact.

**Safety Phrases:**
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 28A After contact with skin, wash immediately with plenty of water.

**WGK (Water Danger/Protection)**
CAS# 62778-12-5: No information available.

**Canada - DSL/NDSL**
CAS# 62778-12-5 is listed on Canada's DSL List.

**Canada - WHMIS**
This product has a WHMIS classification of D1A, D2B.

**Canadian Ingredient Disclosure List**

**Exposure Limits**

### Section 16 - Additional Information

**MSDS Creation Date:** 5/19/1998  
**Revision #3 Date:** 10/08/2003  

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if Fisher has been advised of the possibility of such damages.