

# Material Safety Data Sheet

## 4-Methylaminophenol sulfate

ACC# 85849

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** 4-Methylaminophenol sulfate

**Catalog Numbers:** AC156800000, AC156800050, AC156801000, AC156805000

**Synonyms:** p-Methylaminophenol sulfate; Elon; Genol; Graphol; Metatyl; Photol; Rhodol; Verol; Metol.

**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

CAS#	Chemical Name	Percent	EINECS/ELINCS
55-55-0	p-Methylaminophenol sulfate	99	200-237-1

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: white to beige crystalline powder.

**Warning!** Harmful if swallowed. Causes eye, skin, and respiratory tract irritation. May cause allergic skin reaction. May cause blood abnormalities.

**Target Organs:** Blood, kidneys, spleen, skin.

#### Potential Health Effects

**Eye:** Causes eye irritation.

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

**Ingestion:** Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause blood abnormalities. Groups of 5 male rats were fed 1.0 or 0.1% of p-methylaminophenol sulfate in the diet for 11 days. Abnormalities observed in the high-dose group included a slight brown discoloration of the tail, decreased hemoglobin & hematocrit, changes in red blood cell morphology, & an increase in absolute & relative spleen weights. Gross & histopathologic changes included enlarged spleens & splenic congestion. No treatment-related effects were observed at the low-dose level. (Eastman Kodak)

**Inhalation:** Causes respiratory tract irritation.

**Chronic:** Not available. Groups of 20 male & 20 female rats were administered 61-66 doses (gavage) of 30, 100 or 300 mg/kg of Elon over a period of 91-94 days. Except for brown urine & decreased activity, death occurred without prior signs of toxicity in 20 animals at the high dose-level & 7 animals in the intermediate dose group. Deaths were associated with necrosis of the renal tubular epithelial cells. Abnormalities in the high & intermediate dose groups included degeneration of hemoglobin in circulating erythrocytes, hemolytic anemia, discolored & enlarged spleens, & hemoglobinuric nephrosis. Minor kidney, spleen and red blood cell effects were also observed in some of the low-dose animals. (Eastman Kodak)

### Section 4 - First Aid Measures

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

**Skin:** In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical aid if symptoms occur. Wash clothing before reuse.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:** If inhaled, remove to fresh air. 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 applicable.

**Autoignition Temperature:** 531 deg C ( 987.80 deg F)

**Explosion Limits, Lower:**Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 2; Flammability: 1; Instability: 0

### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid breathing dust.

**Storage:** Do not store in direct sunlight. 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. Absorbs oxygen from the air and will darken upon exposure.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
p-Methylaminophenol sulfate	none listed	none listed	none listed

**OSHA Vacated PELs:** p-Methylaminophenol sulfate: 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. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Physical State:** Crystalline powder

**Appearance:** white to beige

**Odor:** No data

**pH:** 3.5-4.5 (50 g/l H<sub>2</sub>O)

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:** 260 deg C (decomposes)

**Decomposition Temperature:** 260 deg C

**Solubility:** Soluble in water.

**Specific Gravity/Density:** Not available.

**Molecular Formula:** C<sub>14</sub>H<sub>20</sub>N<sub>2</sub>O<sub>6</sub>S

**Molecular Weight:** 344.38

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures. May discolor on exposure to air and light.

**Conditions to Avoid:** Light, dust generation, excess heat.

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

### RTECS#:

CAS# 55-55-0: SL8650000

### LD50/LC50:

CAS# 55-55-0:

Dermal, guinea pig: LD50 = >1 gm/kg;

Oral, mouse: LD50 = 565 mg/kg;

Oral (rat) LDLo: 200 mg/kg. tization test (gpg): Positive.

### Carcinogenicity:

CAS# 55-55-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No data available.

**Teratogenicity:** No data available.

**Reproductive Effects:** No data available.

**Mutagenicity:** No data available.  
**Neurotoxicity:** No data available.  
**Other Studies:**

## Section 12 - Ecological Information

**Ecotoxicity:** Fish: Fathead Minnow: 0.3 mg/l; 96 hr. Daphnia: Water Flea: 0.3 mg/l; 96 hr.

## 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

	US DOT	Canada TDG
<b>Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOL (4-Methylaminophenol sulfate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOL (4-Methylaminophenol sulfate)
<b>Hazard Class:</b>	9	9(6.1)
<b>UN Number:</b>	UN3077	UN3077
<b>Packing Group:</b>	III	III

## Section 15 - Regulatory Information

### US FEDERAL

#### TSCA

CAS# 55-55-0 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.

#### 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 # 55-55-0: immediate.

#### 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 depleters.

This material does not contain any Class 2 Ozone depleters.

#### Clean Water Act:

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# 55-55-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

### California Prop 65

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:

XN N

#### Risk Phrases:

R 22 Harmful if swallowed.

R 43 May cause sensitization by skin contact.

R 48/22 Harmful : danger of serious damage to health by prolonged exposure if swallowed.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety Phrases:

S 36/37 Wear suitable protective clothing and gloves.  
S 46 If swallowed, seek medical advice immediately and show this container or label.  
S 60 This material and its container must be disposed of as hazardous waste.  
S 61 Avoid release to the environment. Refer to special instructions /safety data sheets.

**WGK (Water Danger/Protection)**

CAS# 55-55-0: 2

**Canada - DSL/NDSL**

CAS# 55-55-0 is listed on Canada's DSL List.

**Canada - WHMIS**

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

**Section 16 - Additional Information**

**MSDS Creation Date:** 8/04/1998

**Revision #5 Date:** 3/15/2005

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