Material Safety Data Sheet  
(m-Aminophenol)

SECTION 1 – PRODUCT AND COMPANY INFORMATION

PRODUCT NAME  m-Aminophenol  
SYNONYM  3-Aminophenol  
FORMULA  C6H7NO  
CAS NUMBER  591-27-5

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT NAME  CAS NUMBER  PURITY  
m-Aminophenol  591-27-5  100%

SECTION 3- HAZARDS IDENTIFICATION

Emergency Overview
OSHA Hazards
Target Organ Effect, Harmful by ingestion., Irritant
Target Organs
Eyes

HMIS Classification
Health Hazard: 2
Chronic Health Hazard: *
Flammability: 0
Physical hazards: 0

NFPA Rating
Health Hazard: 2
Fire: 0
Reactivity Hazard: 0

Potential Health Effects
Inhalation  May be harmful if inhaled. Causes respiratory tract irritation.
Skin  May be harmful if absorbed through skin. Causes skin irritation.
Eyes  Causes eye irritation.
Ingestion  Harmful if swallowed.

SECTION 4 – FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
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If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5 – FIRE FIGHTING MEASURES

Flammable properties
Flash point no data available
Ignition temperature no data available

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

SECTION 7 – HANDLING AND STORAGE

Handling
Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventative fire protection.

Storage
Keep container tightly closed in a dry and well-ventilated place.

SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.
Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves.

Eye protection
Safety glasses

Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form crystalline
Colour beige

Safety data
pH no data available
Melting point 120 - 124 °C (248 - 255 °F)
Boiling point 164 °C (327 °F) at 15 hPa (11 mmHg)
Flash point no data available
Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Water solubility no data available

SECTION 10 – STABILITY AND REACTIVITY DATA

Storage stability
Stable under recommended storage conditions.

Materials to avoid
Oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity
LD50 Oral - rat - 924 mg/kg
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Remarks: Peripheral Nerve and Sensation: Spastic paralysis with or without sensory change.
Behavioral: Excitement.
Lungs, Thorax, or Respiration: Other changes.
LC50 Inhalation - rat - 1,162 mg/m3
Remarks: Peripheral Nerve and Sensation: Spastic paralysis with or without sensory change.
Behavioral: Excitement.
Lungs, Thorax, or Respiration: Other changes.

Irritation and corrosion
Skin - rabbit - Mild skin irritation - 24 h
Eyes - rabbit - Moderate eye irritation - 24 h

Sensitisation
no data available

Chronic exposure
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs and Symptoms of Exposure
Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue. Damage to the eyes. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

| Ingestion | May be harmful if swallowed. Causes slight irritation. |
| Skin      | May be harmful if absorbed through skin. Causes skin irritation. |
| Eyes      | Causes eye irritation. |
| Ingestion | Harmful if swallowed. |
| Target Organs | Eyes, |

SECTION 12 – ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)
no data available

Ecotoxicity effects
Toxicity to daphnia and other aquatic invertebrates.
EC50 - Daphnia magna (Water flea) - 1.1 mg/l - 48 h

Further information on ecology
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13 – DISPOSAL CONSIDERATION

Product
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**
Dispose of as unused product.

### SECTION 14 - TRANSPORTATION DATA

**DOT (US)**
- UN-Number: 2512
- Class: 6.1
- Packing group: III
- Proper shipping name: Aminophenols (o-; m-; p-)
- Marine pollutant: No
- Poison Inhalation Hazard: No

**IMDG**
- UN-Number: 2512
- Class: 6.1
- Packing group: III
- EMS-No: F-A, S-A
- Proper shipping name: AMINOPHENOLS
- Marine pollutant: No

**IATA**
- UN-Number: 2512
- Class: 6.1
- Packing group: III
- Proper shipping name: Aminophenols

### SECTION 15 – REGULATORY INFORMATION

**OSHA Hazards**
- Target Organ Effect, Harmful by ingestion., Irritant

**DSL Status**
- All components of this product are on the Canadian DSL list.

**SARA 302 Components**
- SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**
- SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**
- Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**
- No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**
- 3-Aminophenol CAS-No. 591-27-5 Revision Date

**New Jersey Right To Know Components**
- 3-Aminophenol CAS-No. 591-27-5 Revision Date

**California Prop. 65 Components**
This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16 – OTHER INFORMATION

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.